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# INTERANNUAL VARIABILITY OF OCEANOGRAPHIC CONDITIONS IN THE SOUTHEASTERN BEAUFORT SEA

DRAFT

①

# APPENDIX A

## INFORMATION ON DATA SETS

Summary of data sets used in the study: number of temperature-salinity profiles, distribution by area and notes on data quality

| DATA SET I.D. | | SHIP/ AGENCY | ACCURACY TEMP | SAL. | TIME START | END | TOTAL | # MEASUR. SITES (BY REGIONS) I | II | III | IV | V | VI | VII | Comments / Quality Control Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50-0001 | A | BURTON IS. | 0.03 | 0.04 | Aug. 19 | Aug. 23 | 19 | | | | 7 | | 9 | 3 | minor density inversions |
| 51-0001 | A | BURTON IS. | 0.03 | 0.04 | Sep. 14 | Sep. 21 | 28 | | 2 | | 3 | | 14 | 9 | a few mid-depth values outside of TS limits |
| 51-0002 | A | CANCOLIM | 0.03 | 0.04 | Aug. 20 | Aug. 22 | 11 | 1 | 9 | 1 | | | | | few errors |
| | B | | 0.03 | 0.04 | Aug. 24 | Aug. 28 | 9 | | | 1 | 5 | 3 | | | |
| | C | | 0.03 | 0.04 | Sep. 6 | Sep. 15 | 6 | | 1 | 3 | | | 2 | | |
| 52-0001 | A | CANCOLIM | 0.03 | 0.1 | July 18 | July 21 | 16 | | | 16 | | | | | |
| | B | | 0.03 | 0.1 | July 25 | Aug. 16 | 84 | | 24 | 36 | 15 | ? | 9 | | density inversions and salinities >34.9 ~~at~~ in approx. 20 profiles. |
| | BC | | 0.03 | 0.1 | Aug. 17 | Aug. 20 | 16 | | | 10 | | | 6 | | |
| | C | | 0.03 | 0.1 | Aug. 21 | Aug. 24 | 29 | | | 9 | 14 | ? | 6 | | |
| | D | | 0.03 | 0.1 | Aug. 24 | Aug. 31 | 27 | | 20 | 4 | | | 3 | | |
| 52-0002 | A | BURTON IS. | 0.03 | 0.04 | Sep. 2 | Sep. 10 | 10 | | 2 | 3 | 2 | | 2 | 1 | no errors detected. |
| 54-0001 | A | LABRADOR | 0.03 | 0.04 | Sep. 12 | Sep. 14 | 10 | | 1 | | 3 | | 6 | | minor errors |
| 54-0002 | B | BURTON IS. | 0.03 | 0.04 | Sep. 10 | Sep. 13 | 22 | | 1 | 4 | 5 | 7 | 5 | | some mid-depth readings outside of TS bounds in 3 profiles |
| 55-0001 | A | NORTHWIND | 0.03 | 0.04 | Aug. 27 | Sep. 4 | 3 | 1 | 2 | | | | | | no errors detected |
| 55-0016 | A | BURTON IS. | 0.03 | 0.04 | Aug. 2 | Aug. 2 | 3 | | | 1 | | | 1 | 1 | errors in 2 profiles at S>33 |
| 56-0001 | A | REQUISITE | 0.03 | 0.04 | July 30 | July 31 | 3 | | 1 | 1 | 1 | | | | no errors detected |
| | B | | 0.03 | 0.04 | Aug. 27 | Aug. 27 | 1 | | 1 | | | | | | |
| 57-0002 | A | ATKA | 0.03 | 0.04 | Aug. 3 | Aug. 4 | 5 | | 1 | 2 | 1 | | 1 | | minor error in one profile |
| | B | | 0.03 | 0.04 | Aug. 14 | Aug. 15 | 4 | | 1 | 2 | 1 | | | | |
| 58-0001 | A | BURTON IS. | 0.03 | 0.04 | Sep. 2 | Sep. 4 | 6 | 1 | 1 | 2 | 2 | | | | no errors detected |
| 59-0001 | A | T-3 | 0.03 | 0.04 | June 9 | July 24 | 9 | | | | | | | 9 | data at depths < 10 m were unreliable |
| | B | | 0.03 | 0.04 | Aug. 24 | Sep. 9 | 2 | | | | | | | 2 | |
| 59-0002 | A | STATEN IS. | 0.03 | 0.02 | Aug. 10 | Aug. 10 | 1 | | | | | | | 1 | |
| | B | | 0.03 | 0.02 | Aug. 29 | Sep. 3 | 12 | 1 | 1 | 3 | 2 | 5 | | | no errors detected. |
| 60-0001 | A | BURTON IS. | 0.03 | 0.02 | Aug. 16 | Aug. 20 | 10 | | | | 2 | | 8 | | minor errors in 2 profiles |
| | B | | 0.03 | 0.02 | Sep. 7 | Sep. 19 | 12 | 1 | | 1 | 1 | 3 | | 6 | |
| 60-0003 | A | SALVELINUS | 0.03 | 0.04 | Aug. 3 | Aug. 25 | 6 | 6 | | | | | | | |
| 69-0001 | A | STATEN IS. | 0.03 | 0.02 | Aug. 8 | Aug. 10 | 4 | | 2 | 1 | | | 1 | | minor errors in 1 profile |
| 70_0002 | A | HUDSON | 0.03 | 0.02 | Aug. 28 | Sep. 23 | 23 | 4 | 1 | 7 | 3 | | 8 | | no errors detected. |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 71_0001 | A | SALVELINUS | 0.03 | 0.02 | July 19 | July 19 | 4 | | | 4 | | |
| 72_0001 | A | HELICOPTER | 0.03 | ? | Mar. 21 | Apr. 9 | 36 | 4 | 4 | 5 | 23 | |
| 73_0002 | A | NORTH STAR | 0.50 | 0.70 | July 20 | July 27 | 19 | | 5 | 14 | | |
| 74_0007B | B | ? | 0.03 | 0.10 | July 17 | July 31 | 9 | | | 9 | | |
| 74_0007A | A | THETA | 0.03 | 0.02 | July 14 | Aug. 2 | 5 | | | 2 | | 3 |
| | B | | 0.03 | 0.02 | Aug. 12 | Aug. 16 | 2 | | 2 | | | |
| 74_0002 | A | THETA | 0.03 | 0.02 | Aug. 12 | Aug. 19 | 21 | | 13 | 8 | | |
| | B | | 0.03 | 0.02 | Aug. 24 | Aug. 25 | 17 | | 17 | | | |
| | C | | 0.03 | 0.02 | Aug. 25 | Sep. 3 | 24 | 1 | 8 | 15 | | |
| 75_0001 | A | AIRCRAFT | 0.02 | 0.02 | Mar. 20 | Mar. 20 | 2 | | | | 2 | |
| | B | | 0.02 | 0.02 | Apr. 25 | May 10 | 18 | | 3 | 11 | | 4 |
| 75_0002 | A | PANDORA II | 0.01 | 0.02 | Aug. 5 | Aug. 13 | 12 | | 5 | 4 | | 3 |
| | B | | 0.01 | 0.02 | Aug. 14 | Aug. 21 | 32 | | 4 | 23 | | 5 |
| | C | | 0.01 | 0.02 | Aug. 22 | Aug. 24 | 2 | | 1 | 1 | | |
| 75-0006 | A | PANDORA II | 0.01 | 0.02 | Aug. 5 | Aug. 23 | 6 | | 2 | 3 | | 1 |
| 75_0009 | A | THETA | 0.03 | 0.02 | Aug. 14 | Aug. 21 | 6 | | | 4 | | 2 |
| | B | | 0.03 | 0.02 | Aug. 22 | Aug. 24 | 4 | | 3 | | | 1 |
| | C | | 0.03 | 0.02 | Sep. 2 | Sep. 9 | 13 | | 2 | 11 | | |
| 76_0001 | A | CANMAR | 0.1 | 0.2 | Aug. 9 | Aug. 25 | 2 | | | 2 | | |
| 76_0004 | A | SLANEY | 0.5 | 0.7 | Aug. 15 | Aug. 16 | 3 | | | 3 | | |
| 76_0020 | A | SALVELINUS | 0.03 | 1 | Aug. 16 | Aug. 24 | 2 | | | 2 | | |
| 77-0001 | A | SLANEY | 1 | 1 | July 25 | July 25 | 5 | | 5 | | | |
| | B | | 1 | 1 | Aug. 11 | Aug. 11 | 3 | | 3 | | | |
| 77-0002 | A | AQUA. ENV. | ? | ? | July 21 | July 21 | 1 | | | 1 | | |
| | B | | ? | ? | Aug. 27 | Aug. 30 | 3 | | | 3 | | |
| 77-0003 | A | PANDORA | 0.02 | 0.02 | Aug. 14 | Aug. 15 | 5 | | | | 5 | |
| 77-0004 | A | CANMAR | 1 | 1 | July 27 | Aug. 7 | 4 | | | 3 | | 1 |
| | B | | 1 | 1 | Aug. 7 | Aug. 7 | 3 | | | 2 | | 1 |
| | C | | 1 | 1 | Aug. 22 | Aug. 22 | 3 | | | 2 | | 1 |
| | D | | 1 | 1 | Sep. 7 | Sep. 7 | 3 | | | 2 | | 1 |
| | E | | 1 | 1 | Sep. 22 | Sep. 22 | 3 | | | 2 | | 1 |
| | F | | 1 | 1 | Oct. 11 | Oct. 12 | 4 | 1 | | 2 | | 1 |
| 77-0009 | A | ENVIROCON | 0.1 | 0.7 | July 30 | July 31 | 2 | | 2 | | | |
| | B | | 0.1 | 0.7 | Aug. 29 | Aug. 29 | 2 | | | 2 | | |
| 77-0035 | A | SALVELINUS | 0.03 | 1 | July 28 | July 28 | 1 | | | | 1 | |
| | B | | 0.03 | 1 | Aug. 10 | Aug. 14 | 6 | | | 6 | | |
| | C | | 0.03 | 1 | Aug. 20 | Aug. 25 | 6 | | | 6 | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 78-0001 | A | CANMAR | 1 | 1 | July 18 | July 18 | 3 | 1 | | 2 | | | | | |
| | B | | 1 | 1 | July 31 | Aug. 1 | 3 | 1 | | 2 | | | | | |
| | C | | 1 | 1 | Aug. 9 | Aug. 20 | 5 | 1 | | 4 | | | | | |
| | D | | 1 | 1 | Sep. 5 | Sep. 6 | 4 | 1 | | 3 | | | | | |
| | E | | 1 | 1 | Sep. 16 | Sep. 18 | 3 | 1 | | 2 | | | | | |
| 78-0002 | A | SEAKEM | 0.06 | 0.04 | July 19 | July 19 | 2 | | | 2 | | | | | |
| | B | | 0.06 | 0.04 | Sep. 23 | Sep. 24 | 2 | | | 2 | | | | | |
| 78-0018 | A | SEAKEM | 0.08 | 0.04 | July 20 | July 20 | 1 | | | 1 | | | | | |
| 78-0019 | A | CANMAR | 0.08 | 0.04 | July 29 | July 29 | 1 | | | 1 | | | | | * |
| 78-0031 | A | FWI | 0.5 | 0.7 | Sep. 2 | Sep. 4 | 4 | | | 4 | | | | | |
| 79-0003 | A | CANMAR | 1 | 1 | July 17 | July 26 | 2 | | | 2 | | | | | |
| | B | | 1 | 1 | Aug. 3 | Aug. 5 | 3 | | | 3 | | | | | |
| | C | | 1 | 1 | Aug. 23 | Aug. 24 | 3 | 1 | | 2 | | | | | |
| | D | | 1 | 1 | Sep. 16 | Sep. 16 | 4 | 1 | | 3 | | | | | |
| | E | | 1 | 1 | Oct. 6 | Oct. 6 | 4 | 1 | | 3 | | | | | |
| | F | | 1 | 1 | Oct. 12 | Oct. 12 | 3 | | | 3 | | | | | |
| 79-0007 | A | ARCTIC LAB | 0.04 | 0.04 | July 22 | July 22 | 1 | | | 1 | | | | | |
| 79-0010 | A | ARCTIC LAB | 0.04 | 0.09 | Sep. 25 | Sep. 25 | 1 | | | 1 | | | | | |
| 79-0037 | A | FWI/DFO | 0.5 | 0.7 | July 19 | July 19 | 2 | | | 2 | | | | | |
| 80-0002 | A | CANMAR | 0.1 | .07-1. | Aug. 2 | Aug. 2 | 4 | | | 4 | | | | | |
| | B | | 0.1 | .07-1. | Aug. 14 | Aug. 15 | 4 | | | 4 | | | | | |
| | C | | 0.1 | .07-1. | Aug. 26 | Aug. 27 | 4 | | | 4 | | | | | |
| | D | | 0.1 | .07-1. | Aug. 31 | Sep. 10 | 4 | | | 4 | | | | | |
| | E | | 0.1 | .07-1. | Sep. 19 | Sep. 27 | 2 | | | 2 | | | | | |
| 80-0003 | A | ARCTIC LAB | 0.04 | 0.09 | Aug. 10 | Aug. 10 | 1 | | | 1 | | | | | |
| | B | | 0.04 | 0.09 | Sep. 10 | Sep. 10 | 1 | | | 1 | | | | | |
| | C | | 0.04 | 0.09 | Sep. 26 | Sep. 26 | 1 | | | 1 | | | | | |
| 80-0004 | A | ARCTIC LAB | 0.03 | 0.04 | Aug. 15 | Aug. 15 | 1 | | | 1 | | | | | |
| | B | | 0.03 | 0.04 | Sep. 6 | Sep. 6 | 1 | | | 1 | | | | | |
| | C | | 0.03 | 0.04 | Sep. 25 | Sep. 25 | 1 | | | 1 | | | | | |
| 80-0025 | A | LGL LTD. | 0.1 | 0.1 | Aug. 14 | Aug. 14 | 1 | | | 1 | | | | | |
| | B | | 0.1 | 0.1 | Aug. 21 | Aug. 27 | 6 | | 2 | 4 | | | | | |
| 81-0001 | A | IOS | 0.003 | 0.01 | Mar. 18 | Apr. 1 | 42 | | 4 | 7 | 3 | 2 | 22 | 4 | |
| | B | | 0.003 | 0.01 | Apr. 17 | Apr. 18 | 6 | | | | | | 4 | 2 | |
| 81-0002 | A | CANMAR | ? | ? | Aug. 12 | Aug. 14 | 2 | | | 2 | | | | | |
| | B | | ? | ? | Aug. 24 | Aug. 26 | 2 | | | 2 | | | | | |
| 81-0003 | A | ARCTIC LAB | 0.03 | 0.04 | July 26 | July 26 | 1 | | | 1 | | | | | |
| 81-0027 | A | LGL LTD. | 0.1 | 0.1 | Aug. 1 | Aug. 6 | 3 | | | 3 | | | | | |
| | B | | 0.1 | 0.1 | Aug. 10 | Aug. 14 | 7 | | | 7 | | | | | |
| | C | | 0.1 | 0.1 | Aug. 24 | Aug. 25 | 3 | | | 3 | | | | | |

*Large measurement uncertainties limit use to surface levels

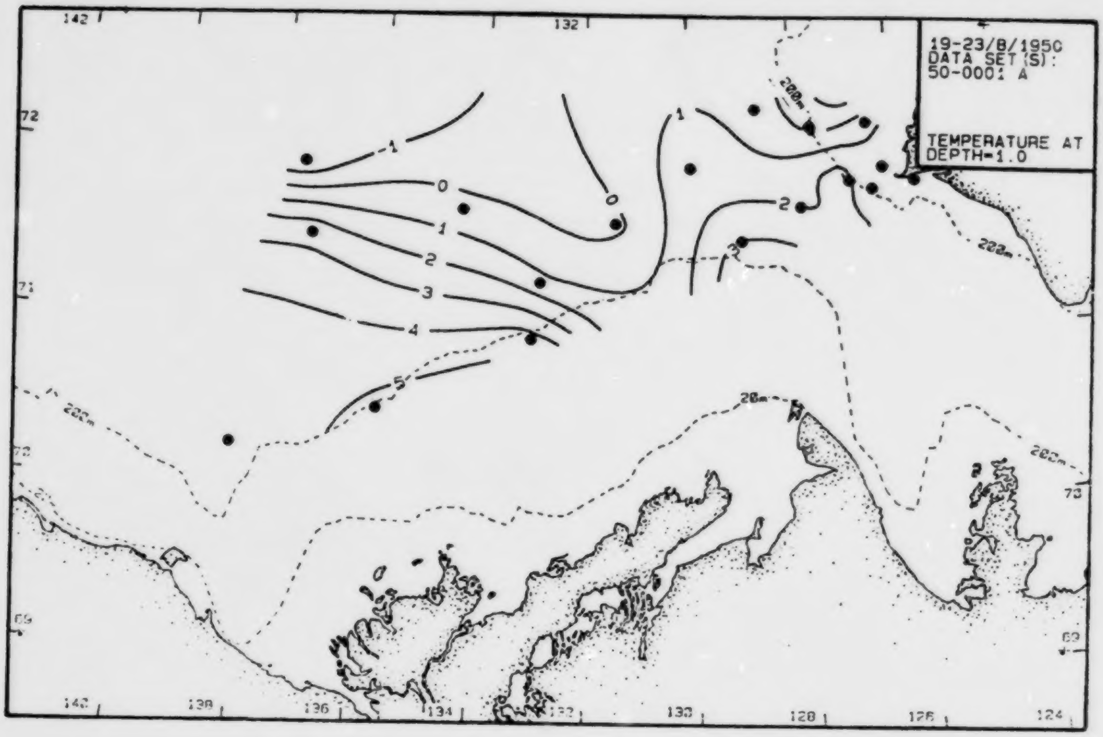
| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 82-0118 | A | CANMAR | ? | ? | July 30 | July 31 | 3 | | | 3 | | | | |
| | B | | ? | ? | Aug. 27 | Aug. 31 | 4 | | 1 | 3 | | | | |
| | C | | ? | ? | Oct. 2 | Oct. 5 | 5 | | 1 | 4 | | | | |
| 83-0058 | A | ARCTIC LAB | 0.10 | 0.02 | Aug. 21 | Aug. 23 | 24 | | | 24 | | | | |
| 83-0065 | A | AGC | 0.03 | 0.10 | July 20 | July 23 | 14 | | | 14 | | | | |
| | B | | 0.03 | 0.10 | July 26 | July 28 | 11 | | | 11 | | | | |
| 83-0069 | A | CANMAR | ? | ? | July 23 | July 28 | 5 | | 2 | 3 | | | | |
| | C | | ? | ? | Aug. 22 | Aug. 23 | 3 | | 1 | 2 | | | | |
| | D | | ? | ? | Sep. 10 | Sep. 13 | 3 | | 1 | 2 | | | | |
| | E | | ? | ? | Sep. 17 | Sep. 19 | 4 | | | 4 | | | | |
| 84-0044 | A | AGC | 0.01 | 0.025 | July 18 | July 20 | 13 | | | 13 | | | | |
| 84-0048 | A | CANMAR | ? | ? | July 19 | July 19 | 1 | | | 1 | | | | |
| | B | | ? | ? | Aug. 6 | Aug. 6 | 2 | | | 2 | | | | |
| | C | | ? | ? | Sep. 7 | Sep. 9 | 3 | | 1 | 2 | | | | |
| 84-DFO | A | FWI/DFO | 0.02 | 0.03 | July 14 | July 24 | 9 | | 5 | 4 | | | | |
| | B | | 0.02 | 0.03 | Sep. 7 | Sep. 9 | 6 | | | 6 | | | | |
| 85-0017 | A | FWI/DFO | 0.02 | 0.03 | Mar. 27 | Mar. 27 | 7 | | | 7 | | | | |
| | B | | 0.02 | 0.03 | May 17 | May 19 | 22 | | 7 | 15 | | | | |
| | C | | 0.02 | 0.03 | July 15 | July 26 | 10 | | 8 | 2 | | | | |
| | D | | 0.02 | 0.03 | Aug. 4 | Aug. 13 | 17 | | 4 | 13 | | | | |
| | E | | 0.02 | 0.03 | Sep. 2 | Sep. 13 | 13 | | 9 | 4 | | | | |
| 85-0032 | A | IOS/DFO | 0.01 | 0.02 | Apr. 13 | Apr. 19 | 18 | 3 | | 5 | | 9 | 1 | |
| 85-0033 | A | CANMAR | ? | ? | Aug. 10 | Aug. 16 | 3 | 1 | 1 | 1 | | | | |
| | B | | ? | ? | Aug. 29 | Aug. 29 | 3 | | 1 | 2 | | | | |
| | C | | ? | ? | Sep. 9 | Sep. 9 | 2 | | 1 | 1 | | | | |
| | D | | ? | ? | Sep. 19 | Sep. 24 | 3 | | 1 | 2 | | | | |
| | E | | ? | ? | Sep. 29 | Oct. 1 | 4 | | 1 | 3 | | | | |
| 86-0010 | A | IOS/DFO | 0.01 | 0.02 | Mar. 23 | Mar. 30 | 21 | 3 | 1 | 3 | | 13 | 1 | |
| 86-DFO | A | FWI/DFO | 0.02 | 0.03 | Mar. 23 | Mar. 30 | 4 | | 1 | 2 | 1 | | | |
| | B | | 0.02 | 0.03 | May 17 | May 22 | 25 | | 8 | 15 | 1 | | 1 | |
| | C | | 0.02 | 0.03 | July 23 | Aug. 3 | 13 | | 8 | 5 | | | | |
| | D | | 0.02 | 0.03 | Aug. 8 | Aug. 12 | 9 | | | 7 | | | 2 | |
| | E | | 0.02 | 0.03 | Aug. 17 | Aug. 21 | 8 | | | 6 | | | 2 | |
| | F | | 0.02 | 0.03 | Aug. 28 | Aug. 30 | 7 | | | 7 | | | | |
| | G | | 0.02 | 0.03 | Sep. 15 | Sep. 20 | 14 | | 11 | 3 | | | | |
| 86-0003 | A | IOS | 0.01 | 0.02 | Sep. 10 | Sep. 14 | 39 | | 13 | 12 | | | 14 | |
| 86-0004 | A | LGL LTD. | 0.05 | 0.1 | Aug. 28 | Sep. 8 | 161 | | 66 | 70 | | | 25 | |
| 87-IOS | A | IOS/DFO | 0.01 | 0.02 | Mar. 24 | Mar. 27 | 26 | | 5 | 8 | 2 | | 10 | 1 |
| 87-DFO | A | FWI/DFO | 0.02 | 0.03 | Mar. 19 | Mar. 22 | 5 | | | 4 | 1 | | | |
| | B | | 0.02 | 0.03 | May 6 | May 19 | 6 | | | 5 | 1 | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | C | | 0.02 | 0.03 | July 19 | Aug. 1 | 18 | 11 | 7 |
| | D | | 0.02 | 0.03 | Aug. 17 | Aug. 27 | 16 | 6 | 10 |
| 87-MGP | A | IOS/DFO | 0.02 | 0.15 | Mar. 30 | Apr. 8 | 12 | 11 | 1 |
| | B | | 0.02 | 0.15 | Apr. 23 | Apr. 28 | 11 | 11 | |
| | C | | 0.02 | 0.15 | May 23 | May 26 | 9 | 9 | |
| | D | | 0.02 | 0.15 | June 2 | June 4 | 19 | 19 | |

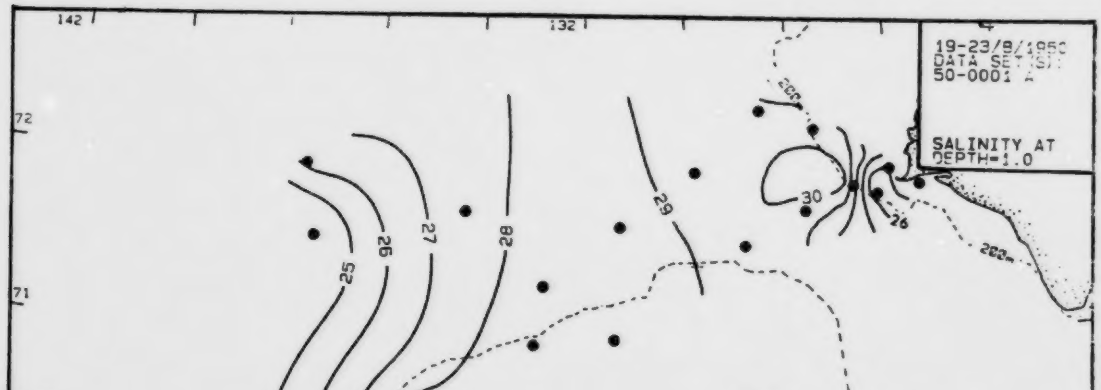
# APPENDIX B

# MAPS OF TEMPERATURE AND SALINITY CONTOURS

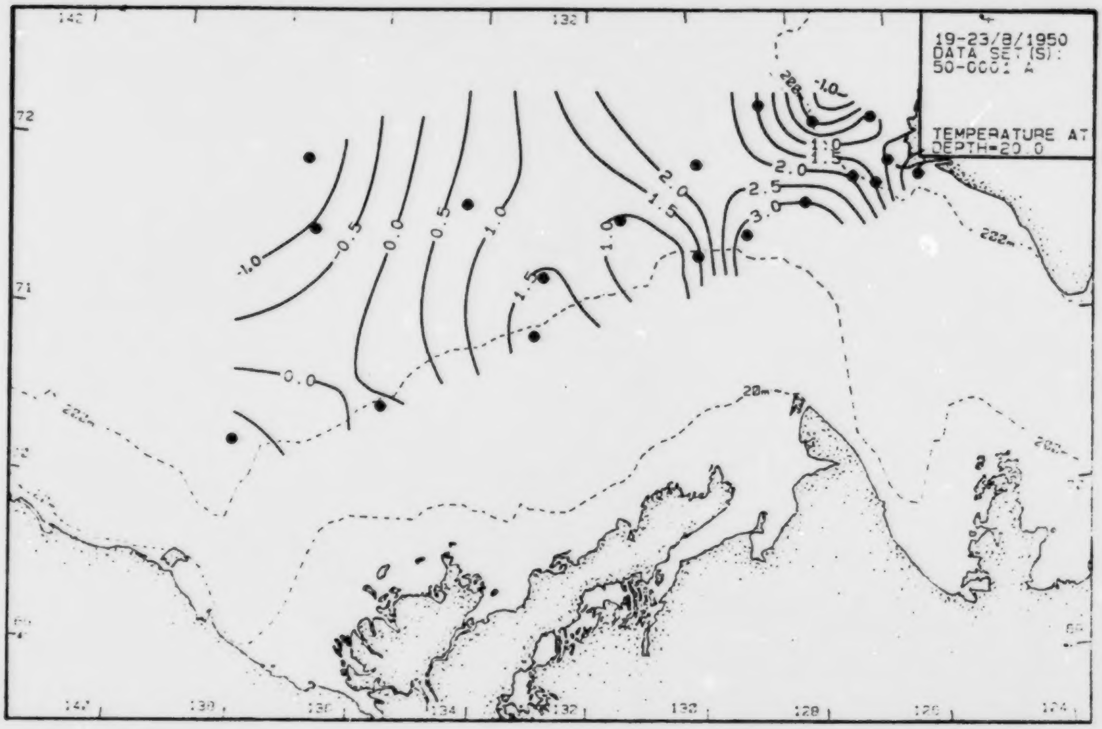
2 2

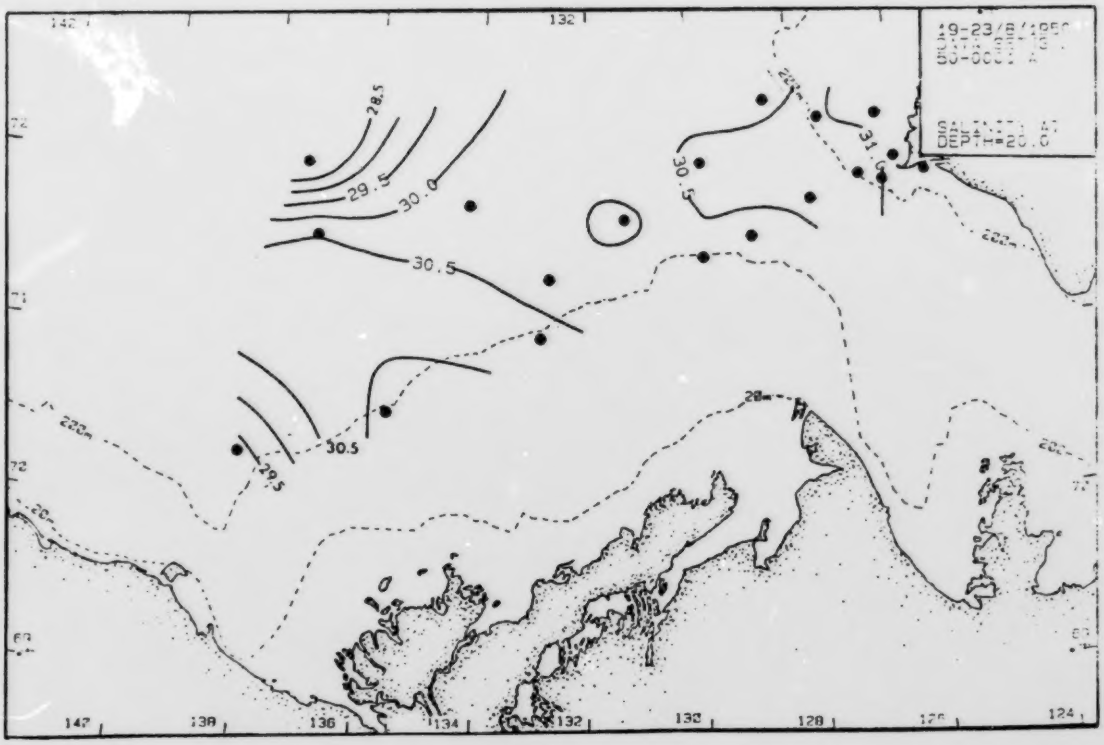


19-23/8/1950
DATA SET(S):
50-0001 A
TEMPERATURE AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
-1
0
1
2
3
4
5
200m
20m

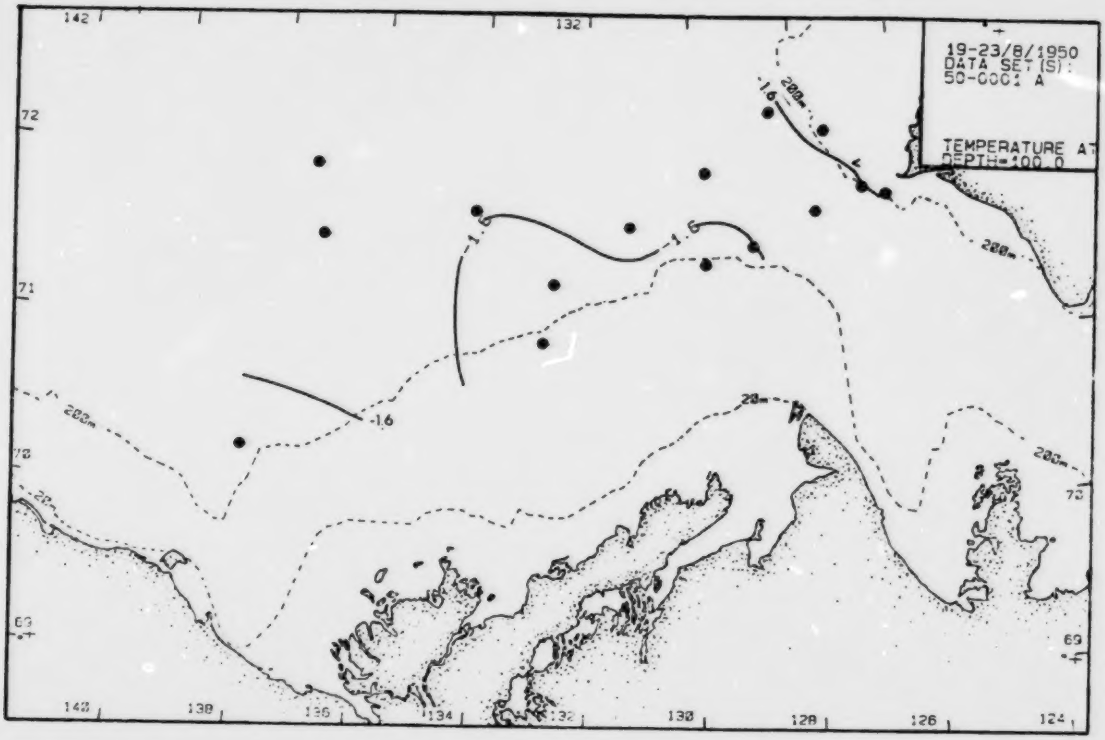


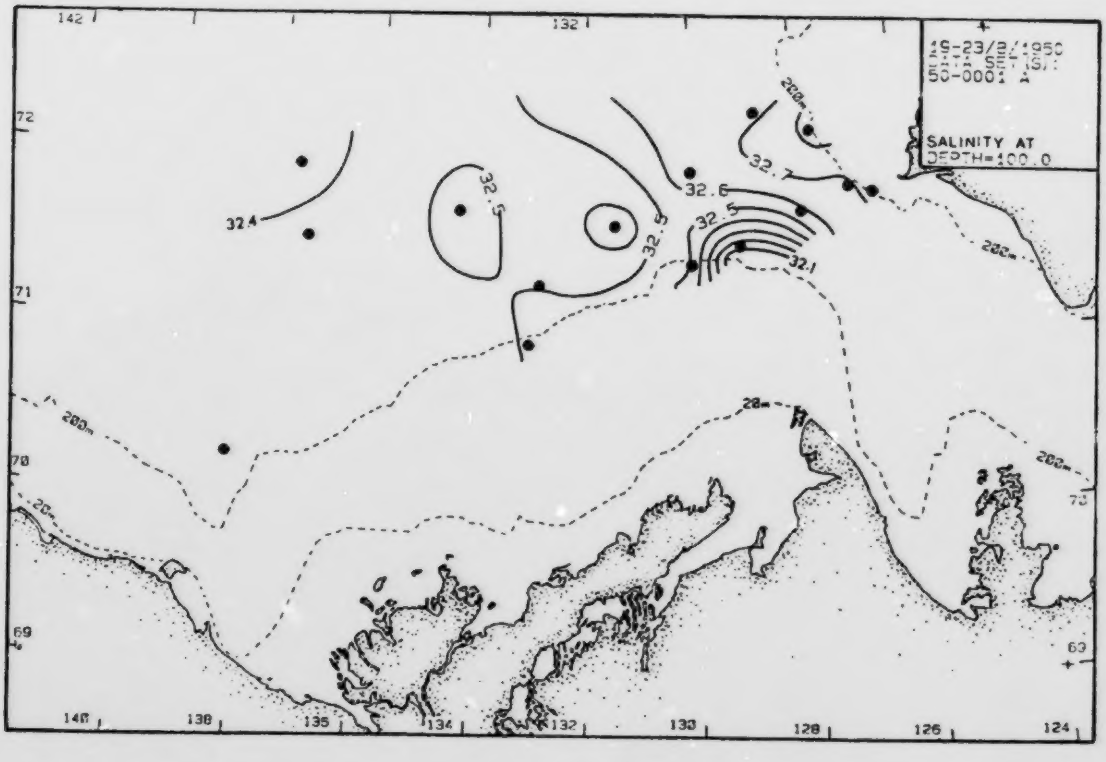
19-23/8/1950
DATA SET(S):
50-0001 A
SALINITY AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
25
26
27
28
29
30
26
200m
20m

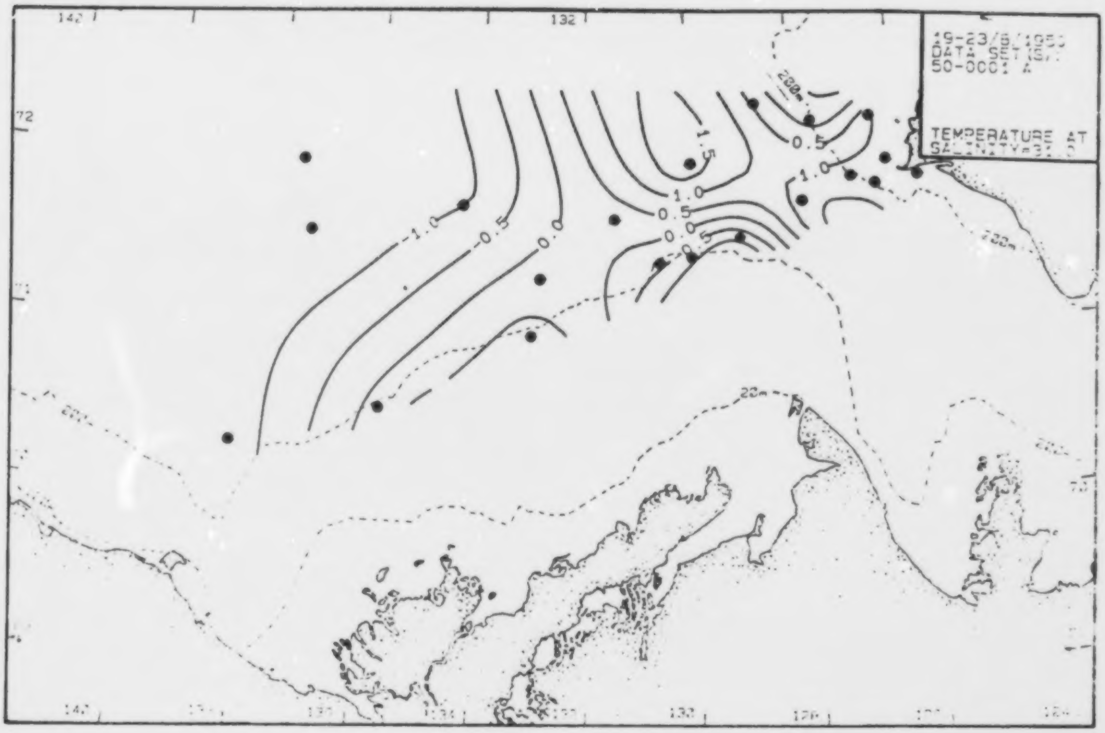

19-23/8/1950
DATA SET(S):
50-0001 A
TEMPERATURE AT
DEPTH=20.0
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
-1.0
0.0
20m
200m
72
71
142
138
136
134
132
130
128
126
124

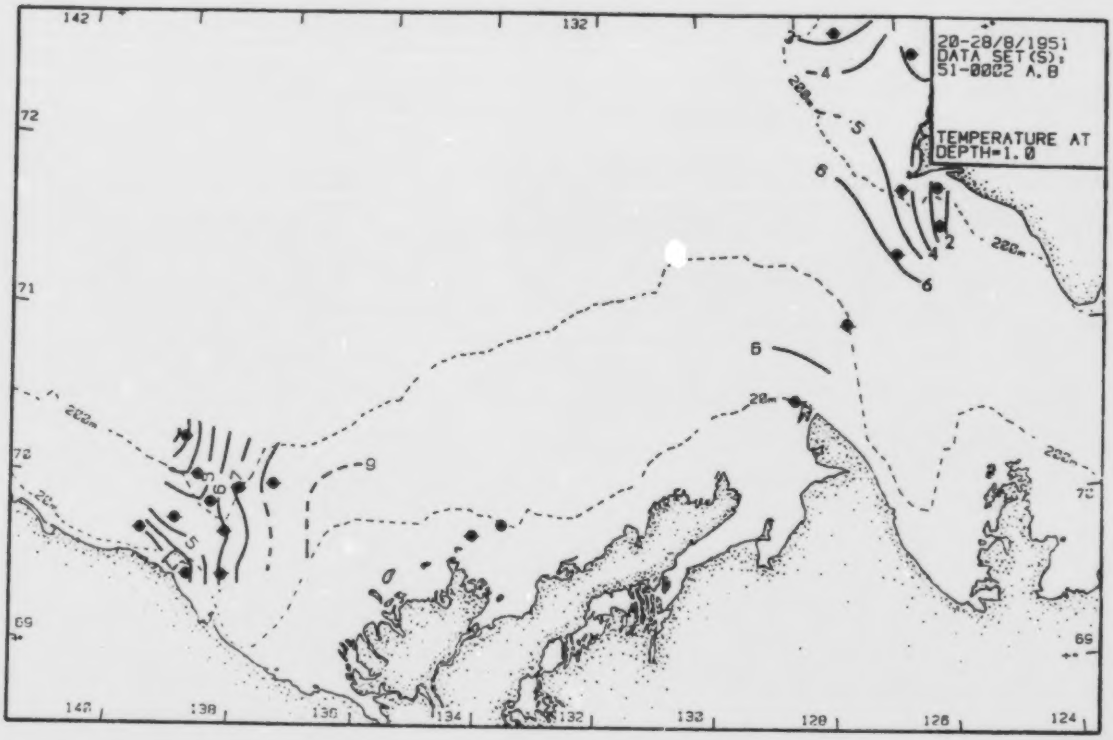

19-23/8/1950
DATA SET(S):
50-0001 A
SALINITY AT
DEPTH=20.0
28.5
29.5
30.0
30.5
31.0
30.5
30.5
29.5
20m
200m
72
71
142
138
136
134
132
130
128
126
124

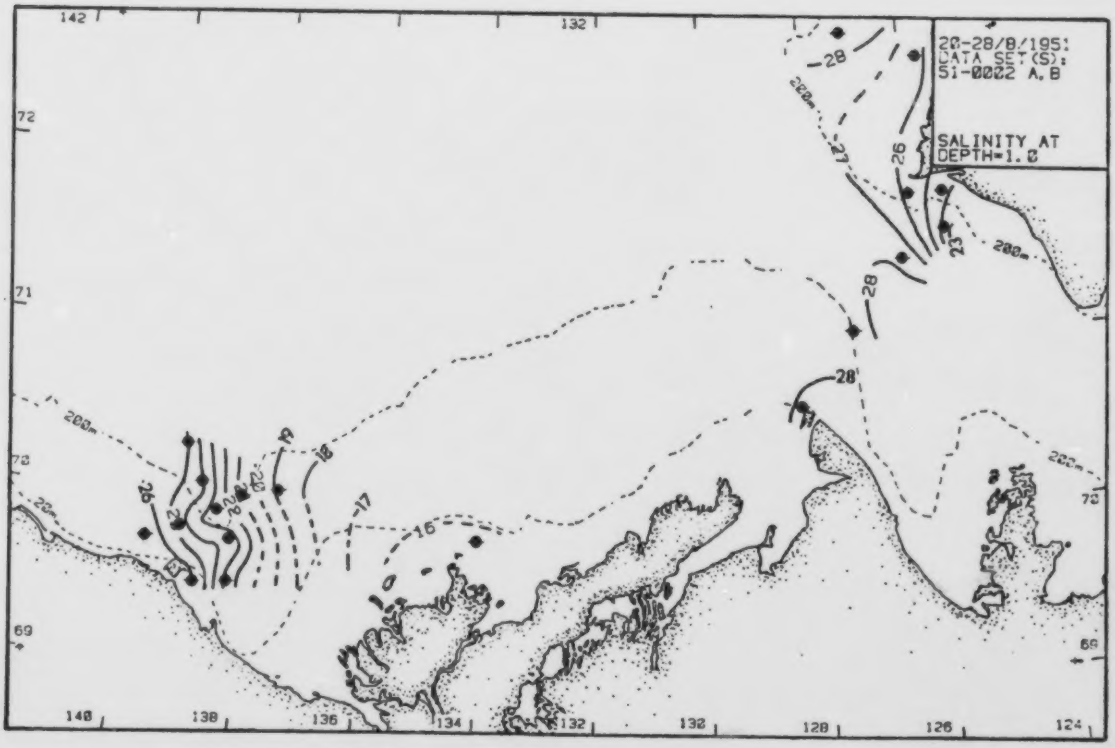
2 4

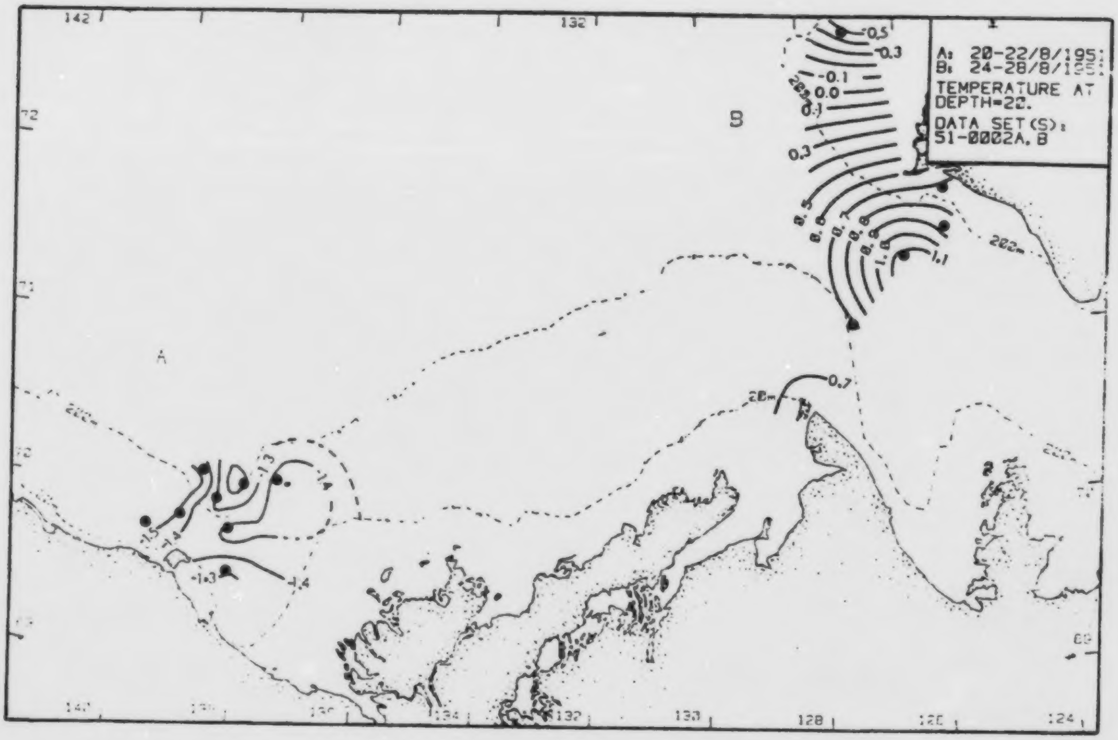

19-23/8/1950
DATA SET(S):
50-0001 A
TEMPERATURE AT
DEPTH=100.0
142
132
72
71
70
69
-1.6
200m
20m
140
138
136
134
132
130
128
126
124

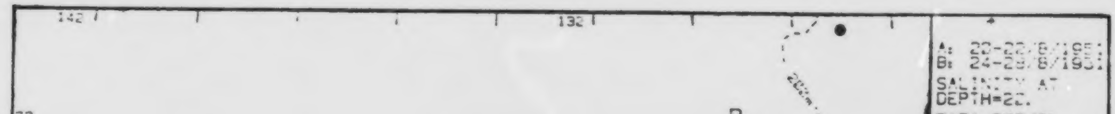

19-23/8/1950
DATA SET(S):
50-0001 A
SALINITY AT
DEPTH=100.0
142
132
72
71
70
69
32.4
32.5
32.6
32.7
32.1
200m
20m
140
138
136
134
132
130
128
126
124

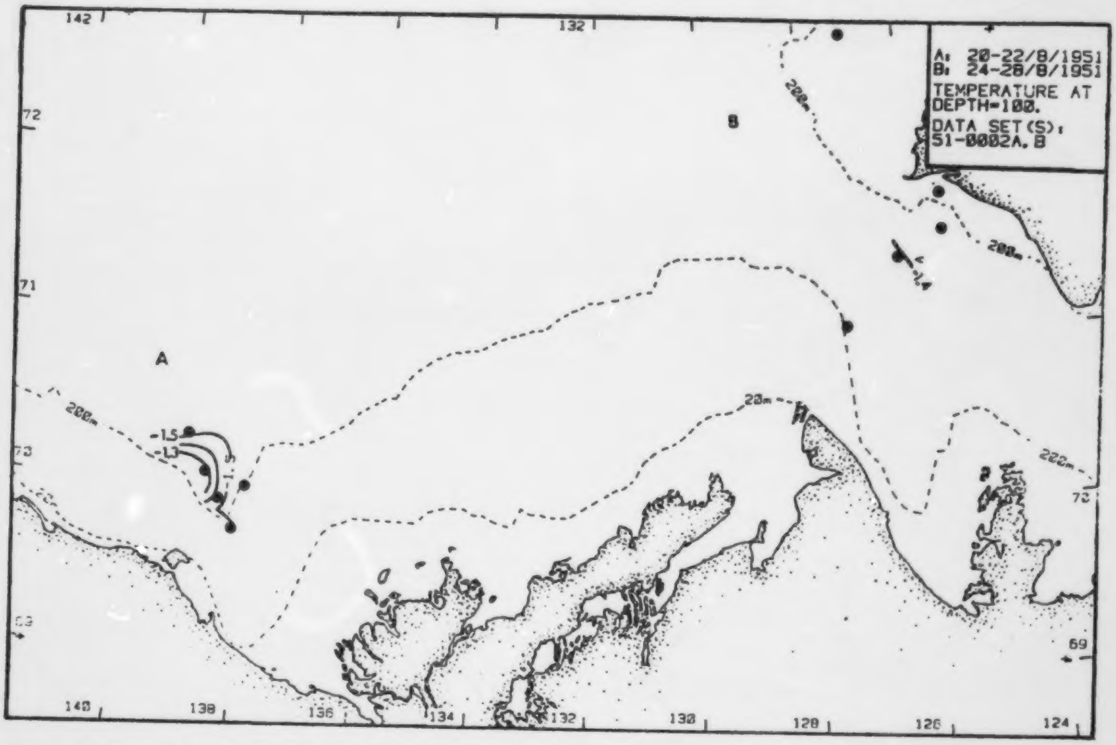

19-23/8/1950
DATA SET(S):
50-0001 A
TEMPERATURE AT
SALINITY=31.0
142
132
72
1.5
1.0
0.5
0.0
-0.5
-1.0
200m
20m
142
132
128
124

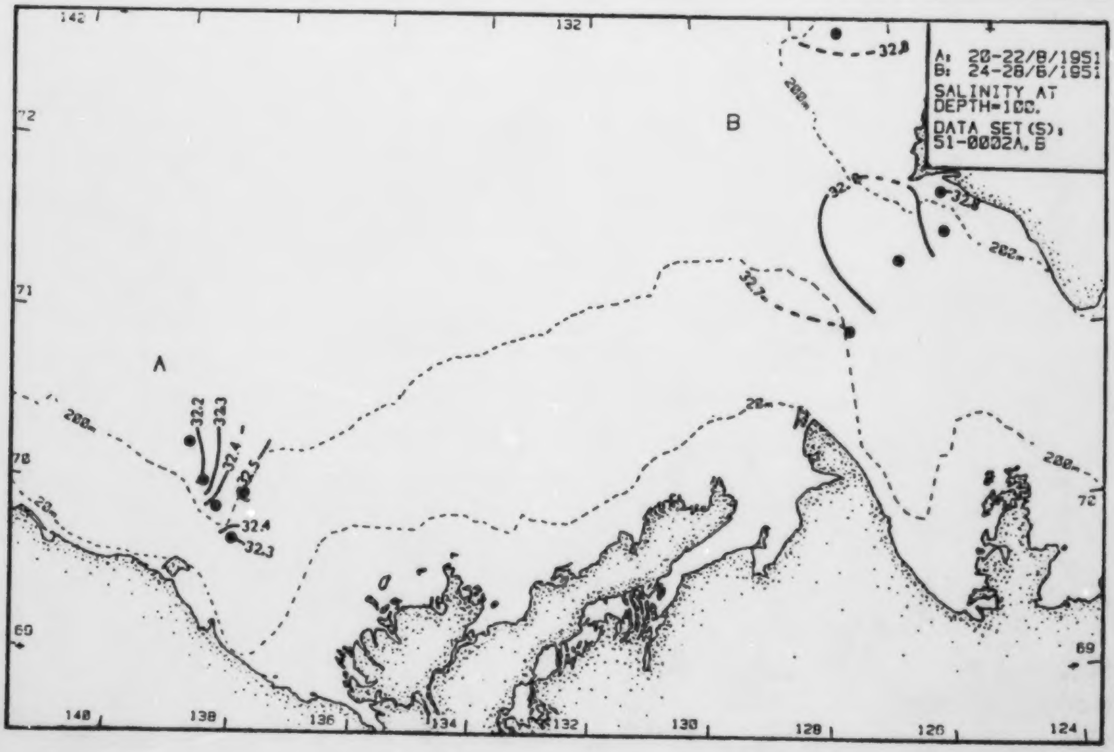

20-28/8/1951
DATA SET(S):
51-0002 A, B
TEMPERATURE AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
3
4
5
6
2
9

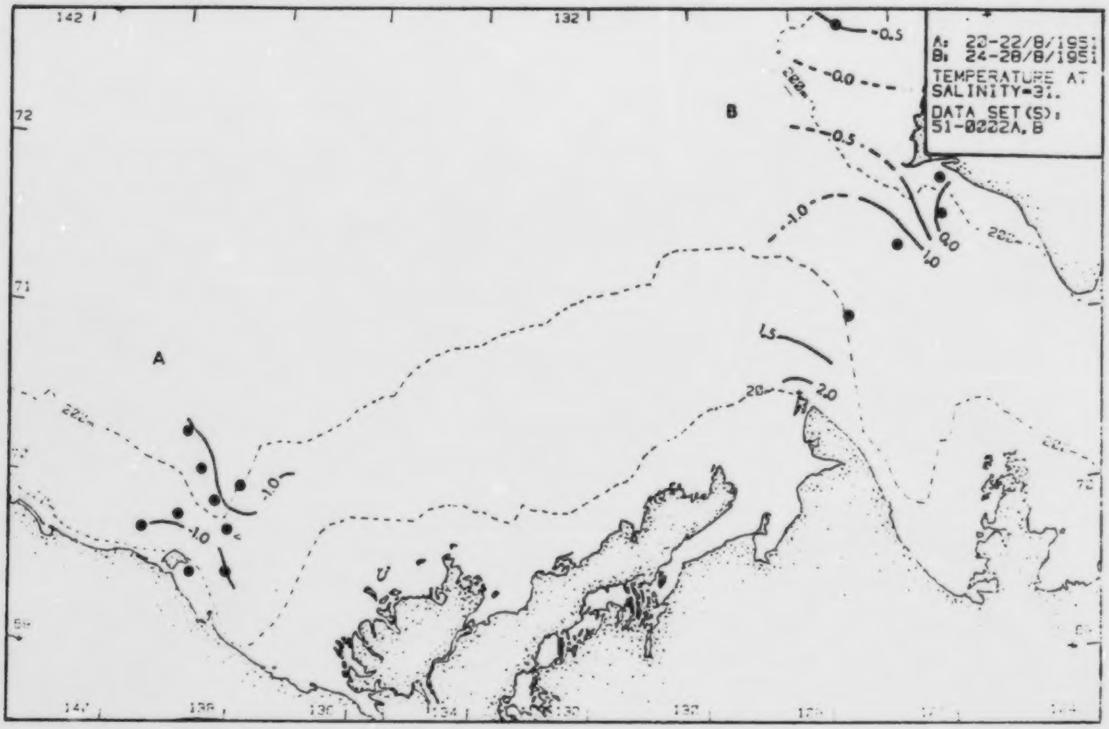

20-28/8/1951
DATA SET(S):
51-0002 A, B
SALINITY AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
28
27
26
23
19
18
17
16
10


A: 20-22/8/195
B: 24-28/8/195
TEMPERATURE AT DEPTH=20.
DATA SET(S): 51-0002A,B
A
B
20m
200m
-0.5
-0.3
-0.1
0.0
0.1
0.3
0.5
0.6
0.7
0.8
1.0
1.1
0.7
-1.3
-1.4
-1.5
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69

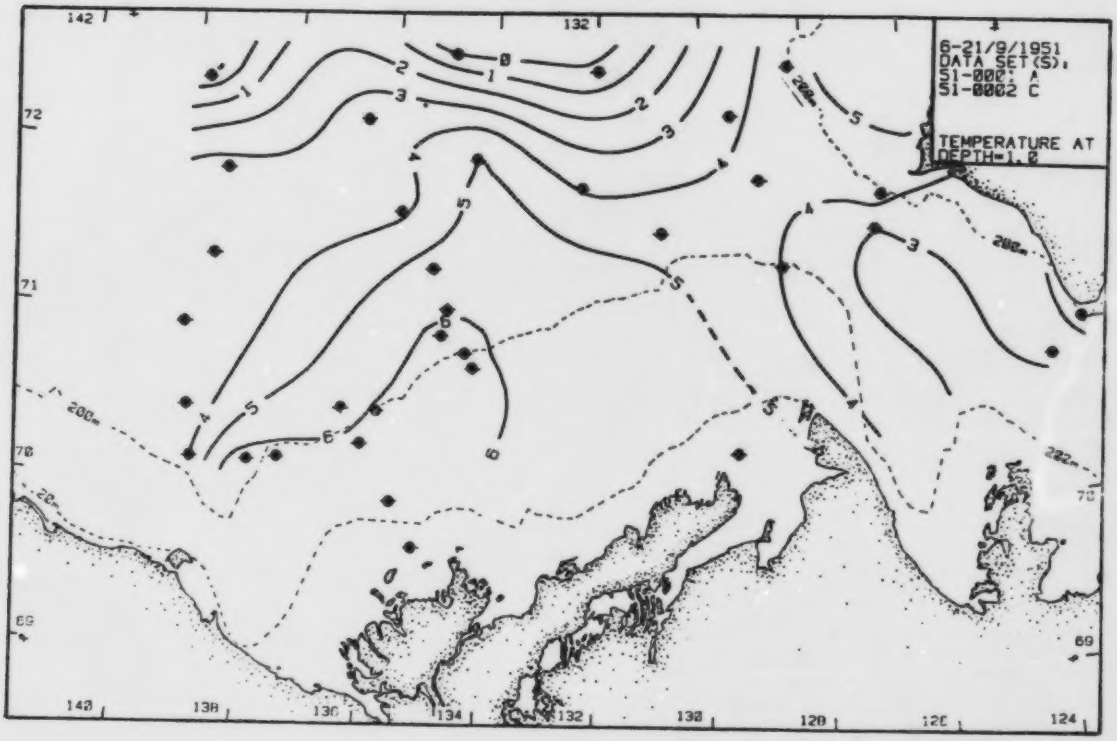

A: 20-22/8/195
B: 24-28/8/195
SALINITY AT DEPTH=20.
DATA SET(S): 51-0002A,B
A
B
20m
200m
31.0
31.5
31.0
31.5
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69

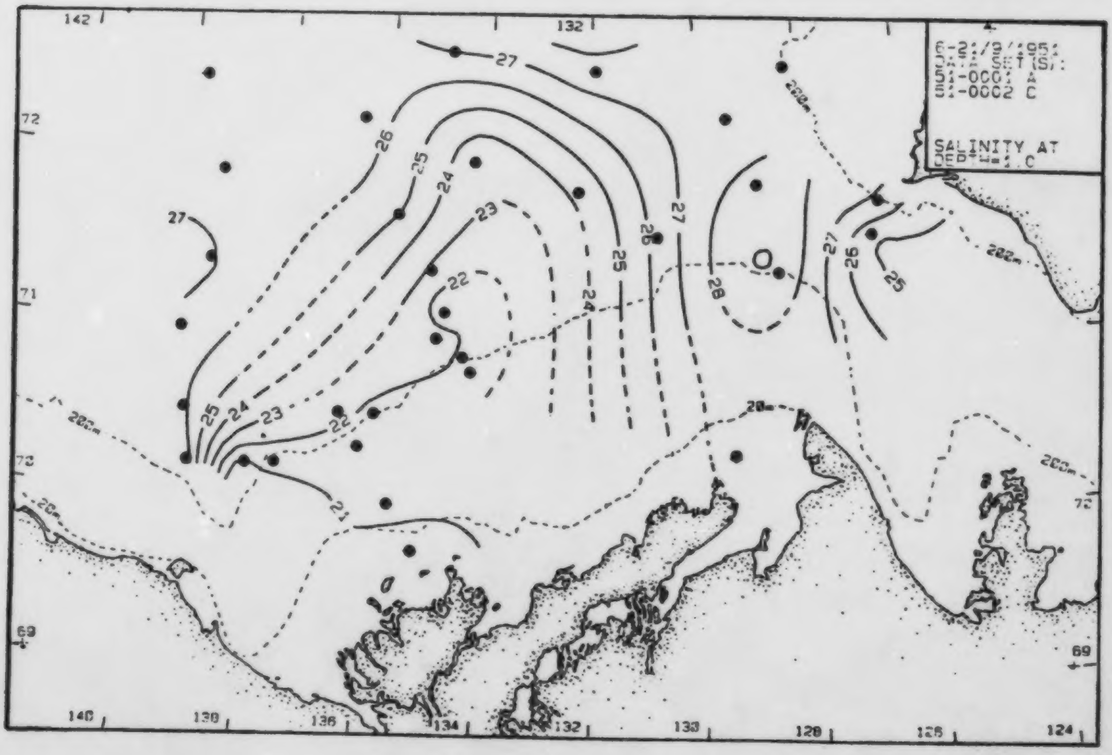

A: 20-22/8/1951
B: 24-28/8/1951
TEMPERATURE AT DEPTH=100.
DATA SET(S): 51-0002A,B
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
A
B
200m
20m
-1.5
-1.3
-1.5
-1.4

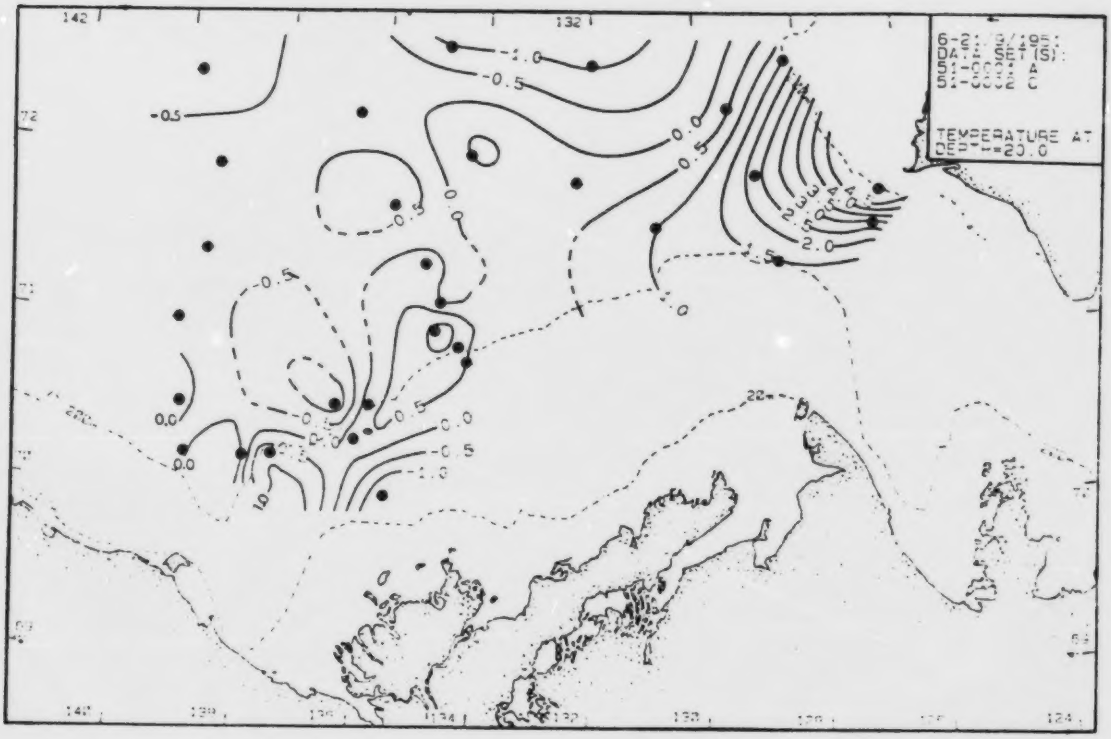

A: 20-22/8/1951
B: 24-28/8/1951
SALINITY AT DEPTH=100.
DATA SET(S): 51-0002A,B
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
A
B
200m
20m
32.8
32.7
32.2
32.3
32.4
32.5
32.4
32.3

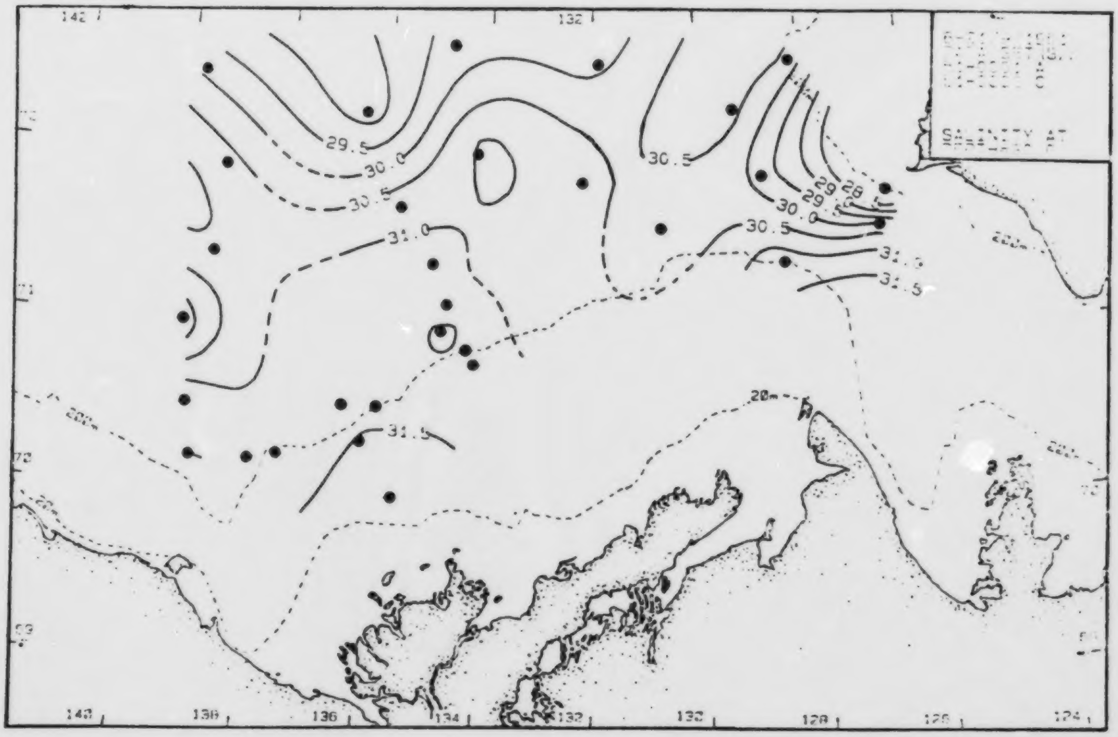

A: 20-22/8/1951
B: 24-28/8/1951
TEMPERATURE AT SALINITY=31.
DATA SET(S): 51-0222A,B
142
132
72
71
A
B
-0.5
0.0
-1.0
1.0
1.5
2.0
200
134
130

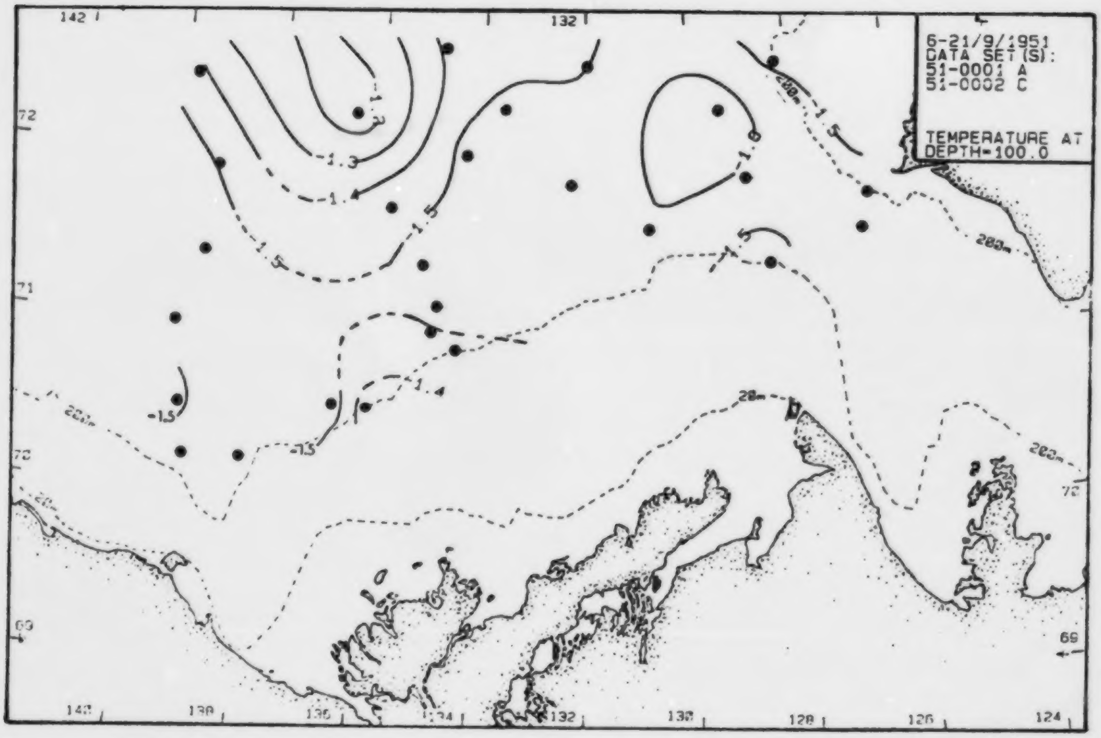
2 10

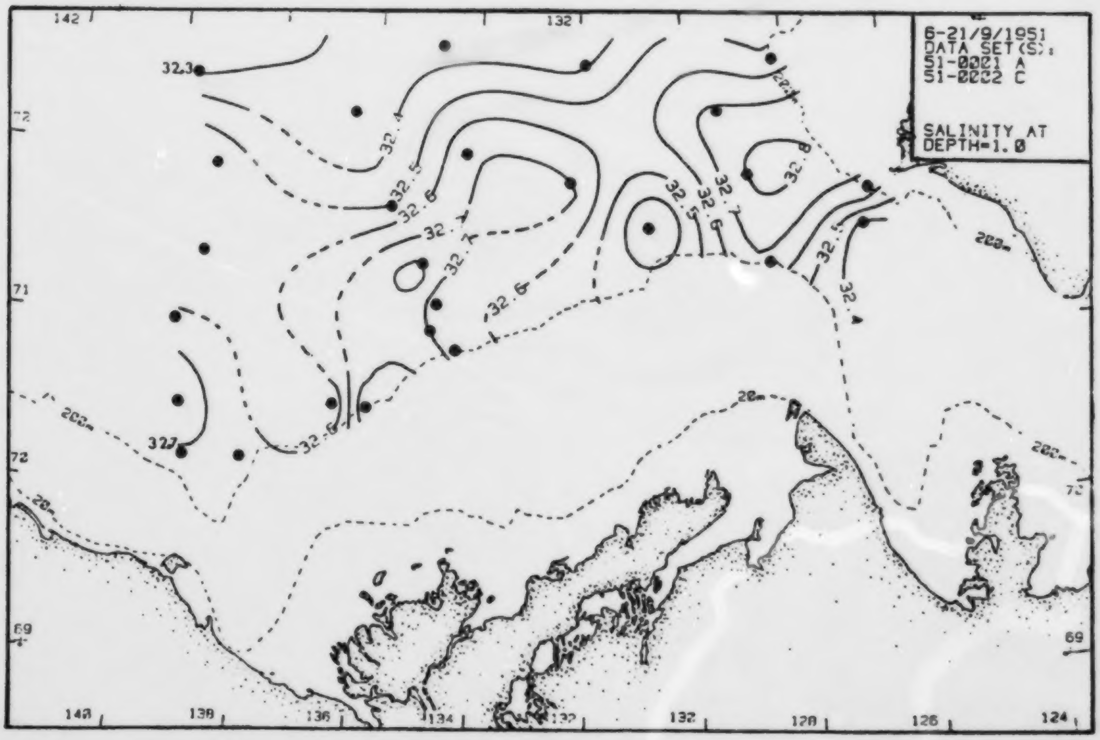

6-21/9/1951
DATA SET(S):
51-0001 A
51-0002 C
TEMPERATURE AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
0
1
2
3
4
5
6
200m
20m

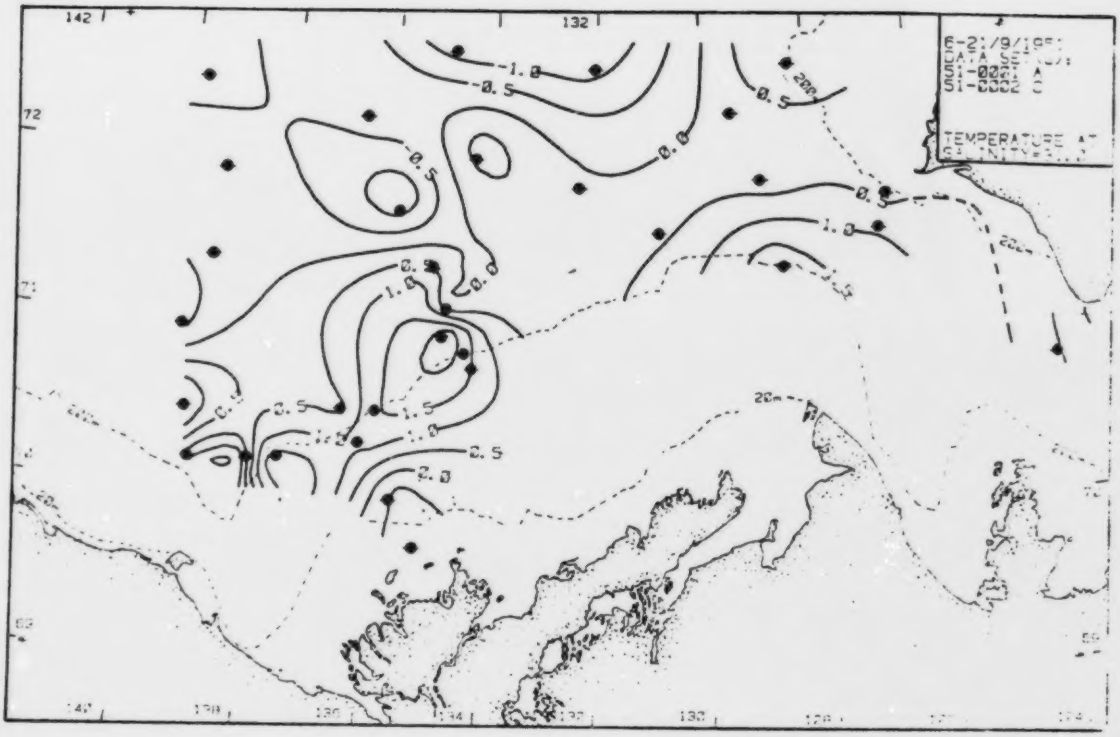

6-21/9/1951
DATA SET(S):
51-0001 A
51-0002 C
SALINITY AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
21
22
23
24
25
26
27
28
200m
20m

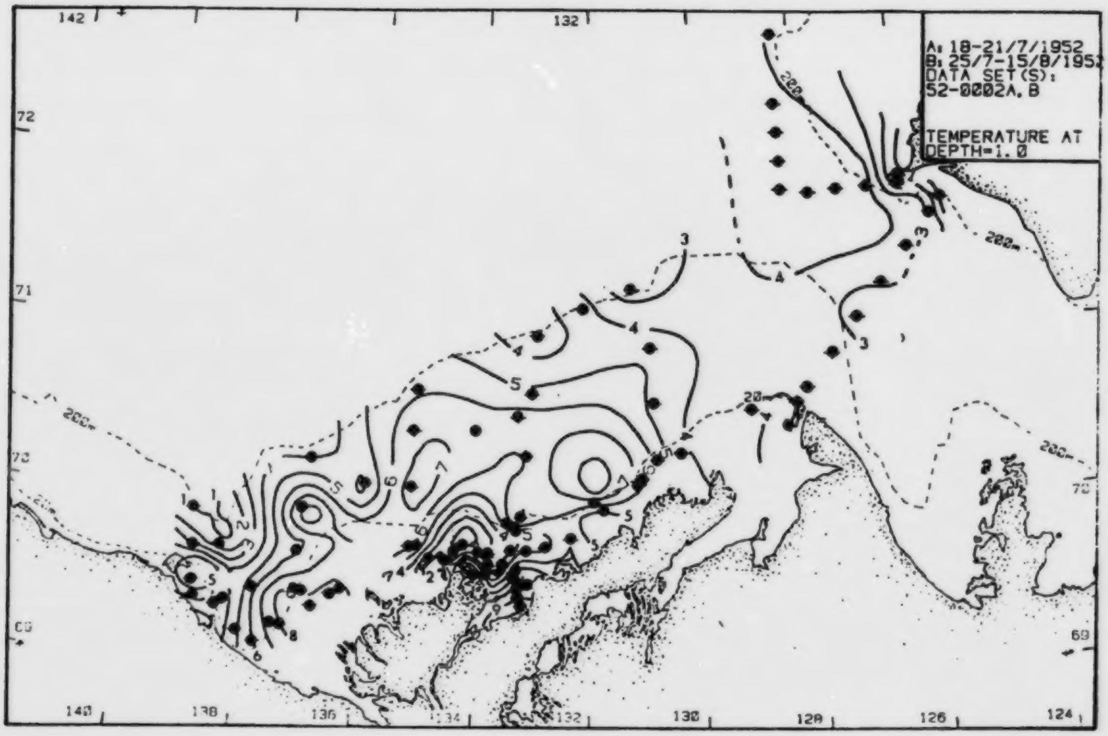

6-21/9/195
DATA SET(S):
51-0001 A
51-0002 C
TEMPERATURE AT
DEPTH=20.0
-1.0
-0.5
0.0
0.5
1.5
2.0
2.5
3.0
3.5
4.0
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124

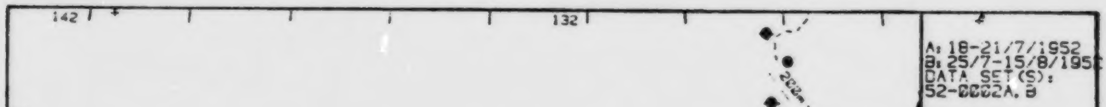

SALINITY AT
29.5
30.0
30.5
31.0
31.5
28
29
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124

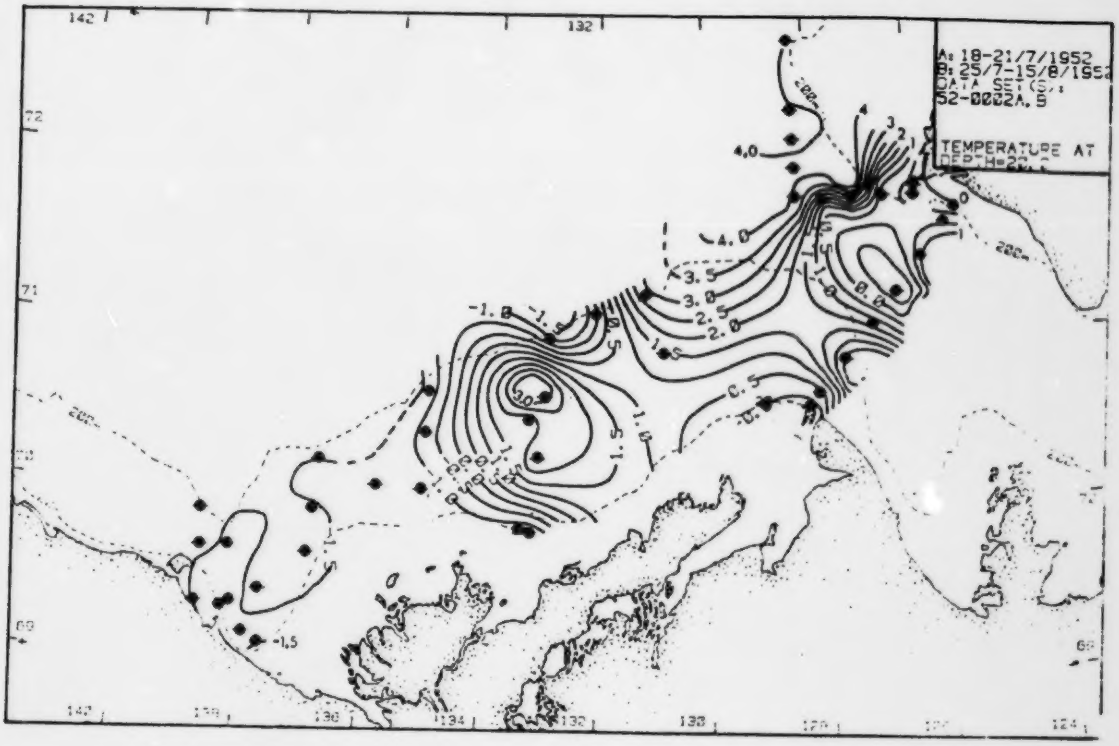

6-21/9/1951
DATA SET(S):
51-0001 A
51-0002 C
TEMPERATURE AT
DEPTH=100.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
-1.2
-1.3
-1.4
-1.5
-1.6
-1.3
-1.4
200m
20m

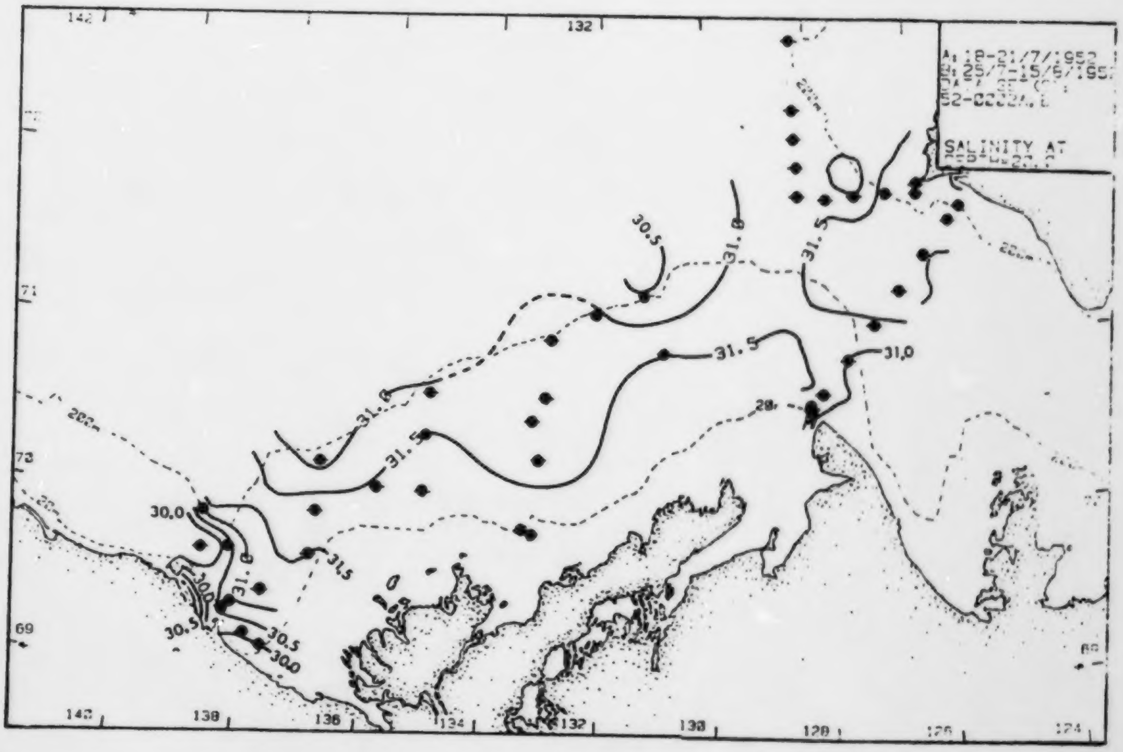

6-21/9/1951
DATA SET(S):
51-0001 A
51-0002 C
SALINITY AT
DEPTH=1.0
142
132
140
138
136
134
132
132
128
126
124
72
71
72
69
32.3
32.4
32.5
32.6
32.7
32.8
32.6
32.7
32.4
200m
20m

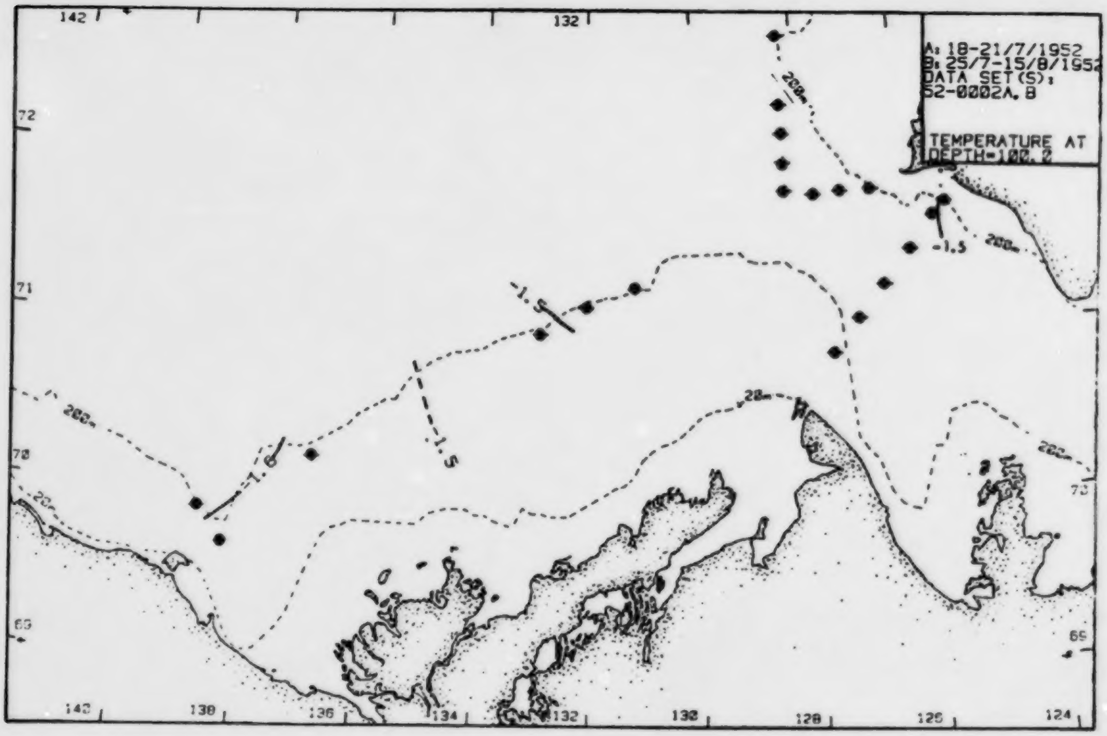

142
132
72
71
-1.0
-0.5
0.5
0.0
1.0
1.5
2.0
200
20m
140
138
136
134
132
130
128
DATA SET NO.:
51-0001 A
51-0002 C
TEMPERATURE AT

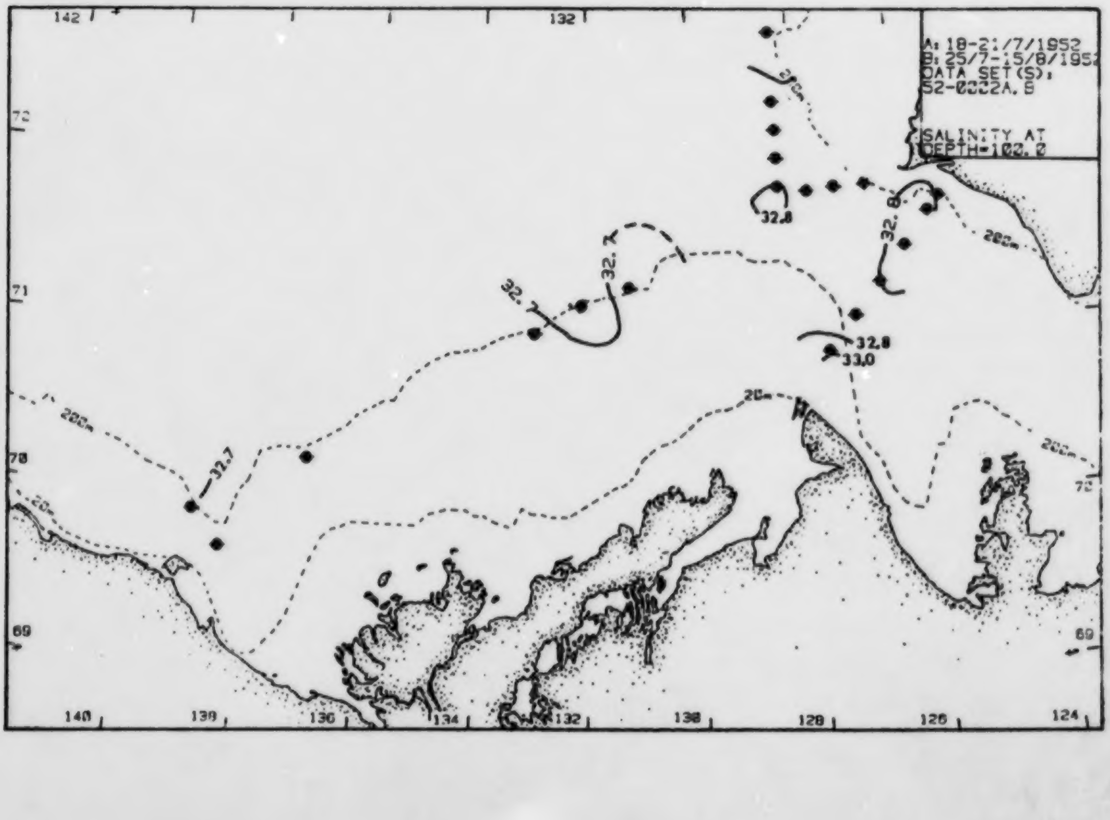

A: 18-21/7/1952
B: 25/7-15/8/1952
DATA SET(S):
52-0002A.B
TEMPERATURE AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m

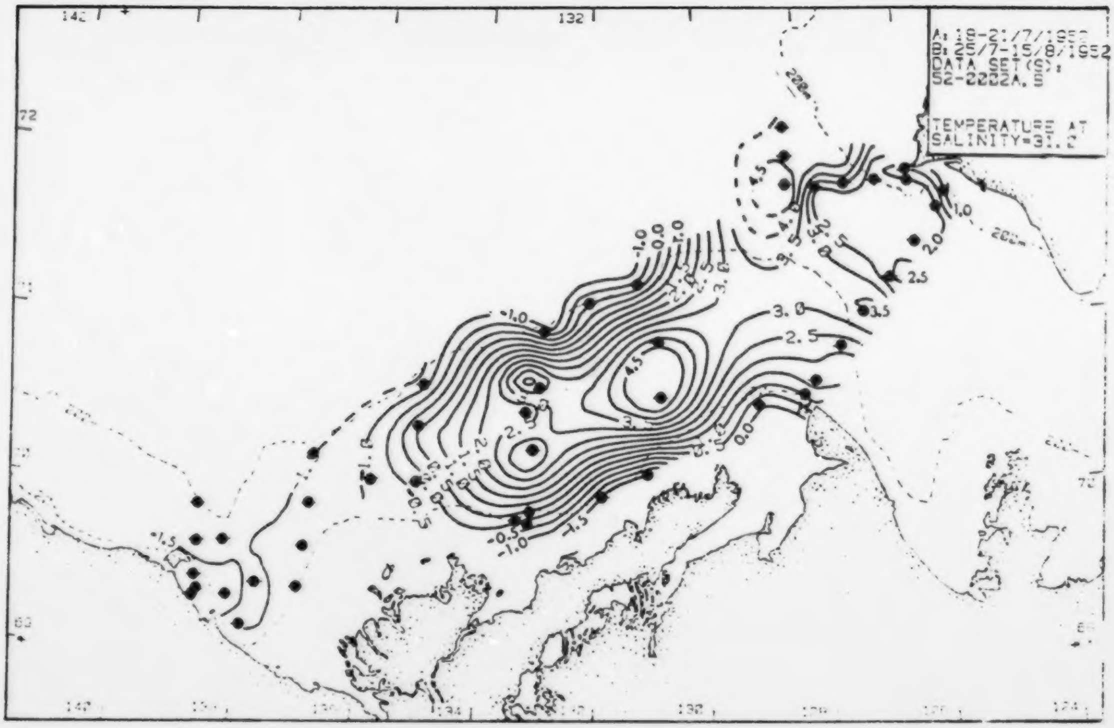

A: 18-21/7/1952
B: 25/7-15/8/1952
DATA SET(S):
52-0002A.B
SALINITY AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m

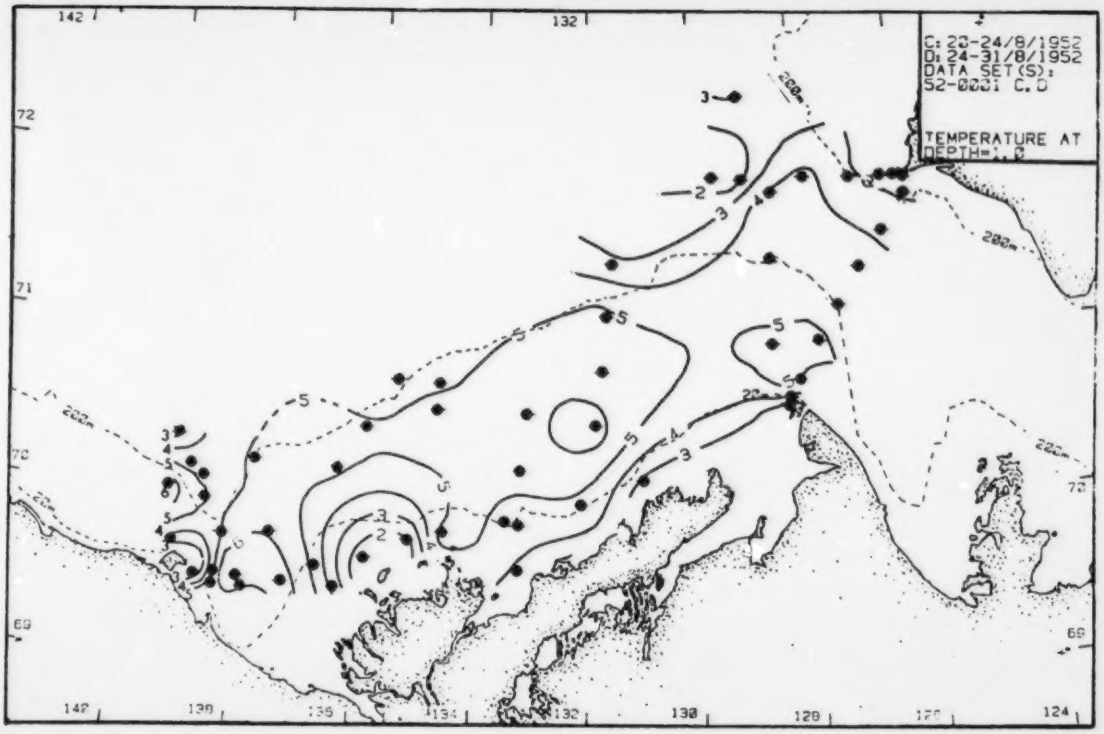

A: 18-21/7/1952
B: 25/7-15/8/1952
DATA SET(S):
52-0022A.B
TEMPERATURE AT
DEPTH=20.0
142
132
72
71
70
69
138
136
134
130
128
126
124
200
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-1.0
-1.5
-1.5

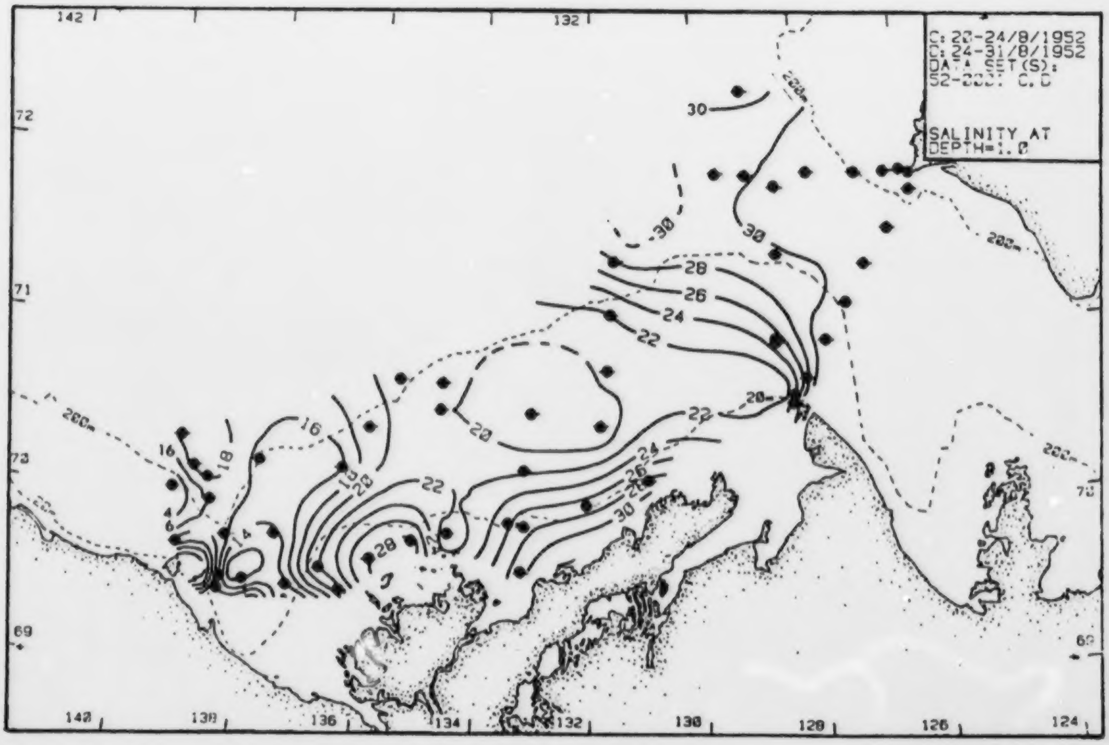

A: 18-21/7/1952
B: 25/7-15/8/1952
DATA SET(S):
52-0022A.B
SALINITY AT
DEPTH=20.0
142
132
71
70
69
140
138
136
134
130
128
126
124
200
20
30.5
31.0
31.5
31.0
31.5
31.5
31.0
31.0
30.0
30.0
30.5
30.5
30.0

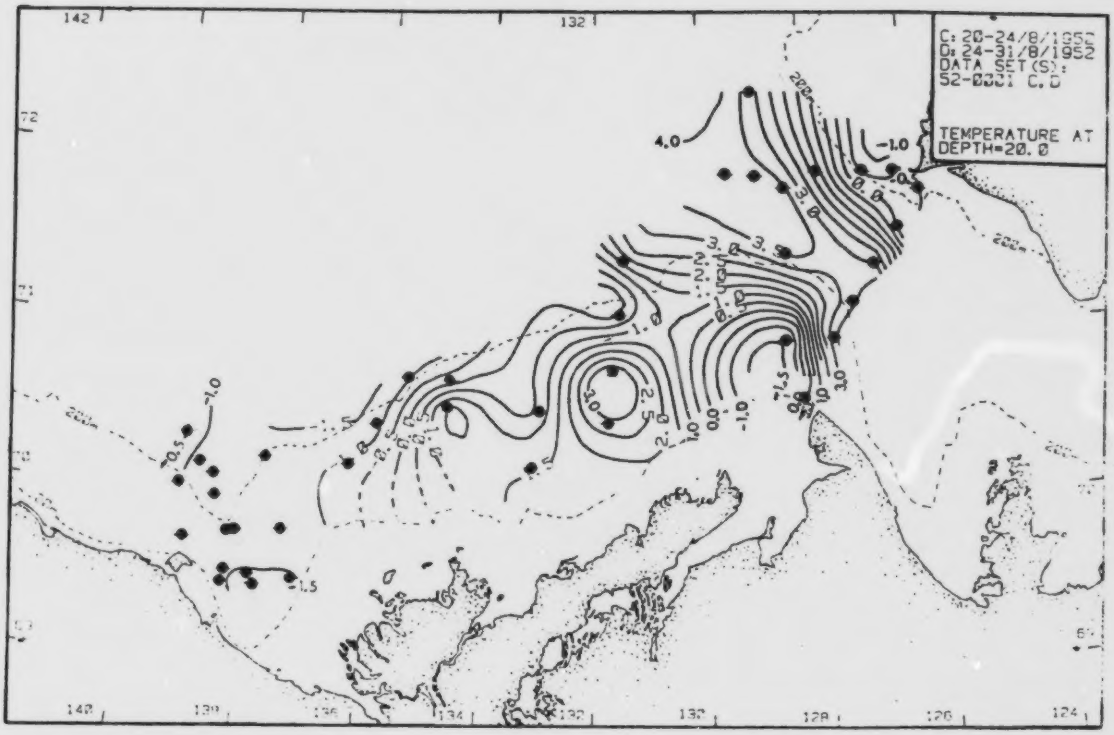

A: 18-21/7/1952
B: 25/7-15/8/1952
DATA SET(S):
52-0002A. B
TEMPERATURE AT
DEPTH=100.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
-1.5
-1.5
-1.5
-1.6
69
70

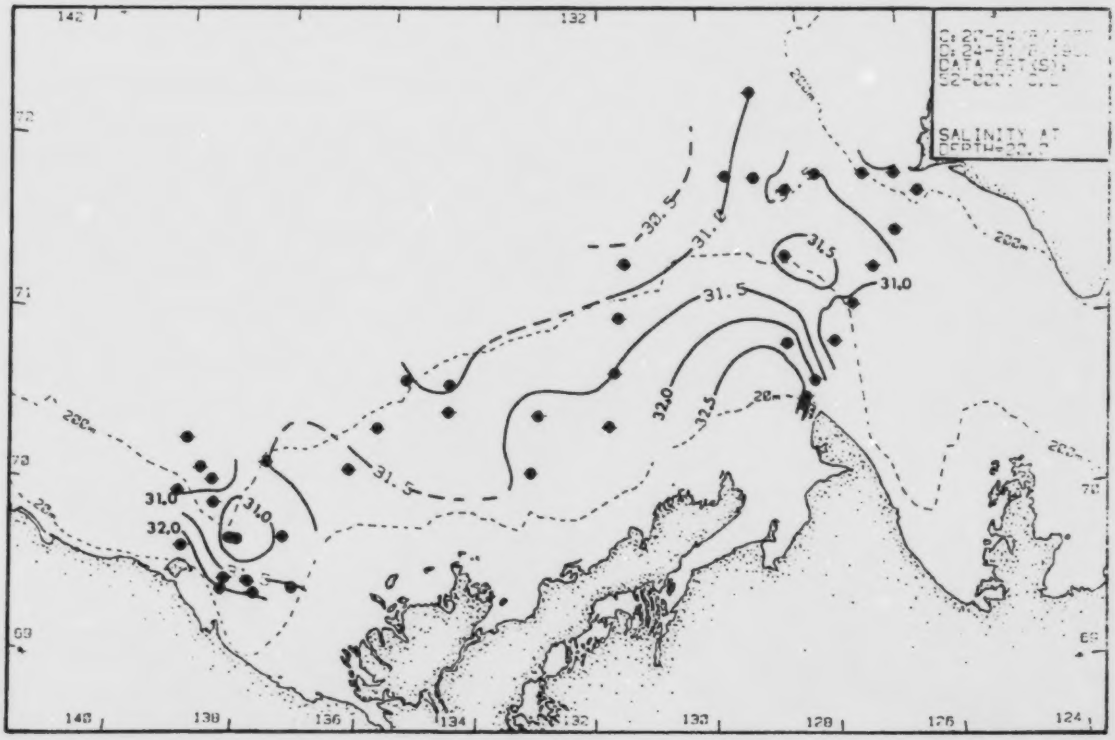

A: 18-21/7/1952
B: 25/7-15/8/1952
DATA SET(S):
52-0002A. B
SALINITY AT
DEPTH=100.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
32.8
32.8
32.7
32.7
32.8
33.0
32.7
69
70

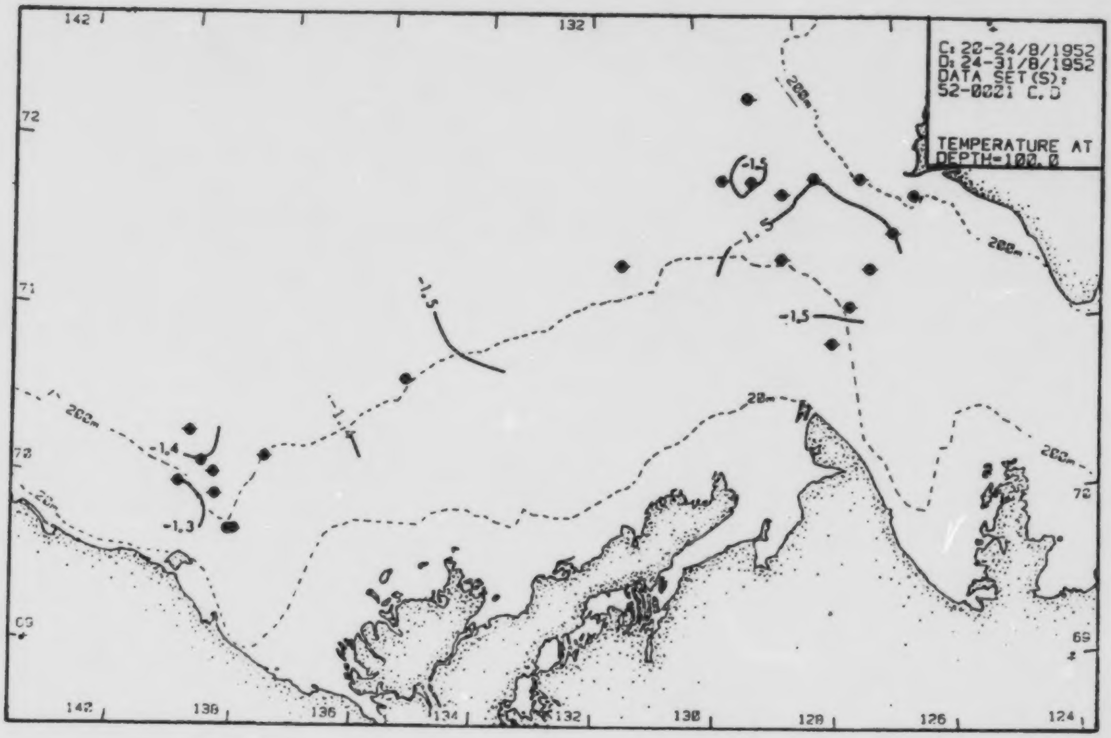

A: 18-21/7/1952
B: 25/7-15/8/1952
DATA SET(S):
52-2202A.S
TEMPERATURE AT
SALINITY=31.2
142
132
72
70
69
140
130
128
124
200m
-1.5
-1.0
-0.5
0.0
1.0
1.5
2.0
2.5
3.0
3.5
4.5

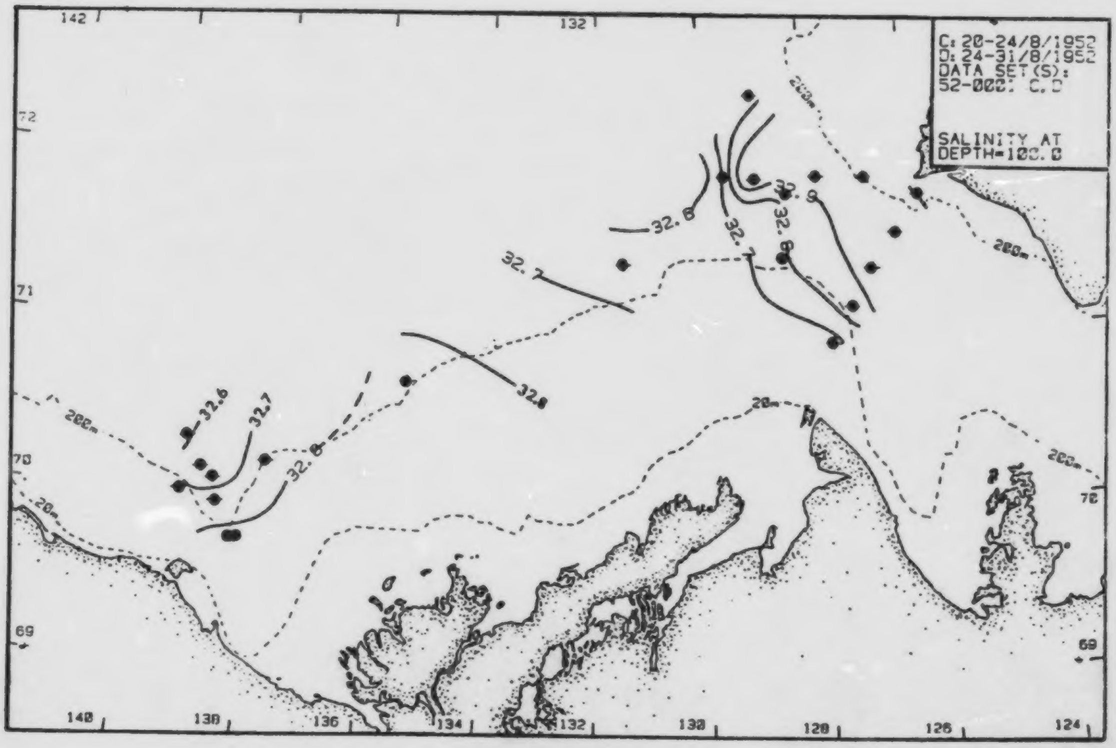

C: 20-24/8/1952
D: 24-31/8/1952
DATA SET(S):
52-0001 C.D
TEMPERATURE AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
2
3
4
5
6
0

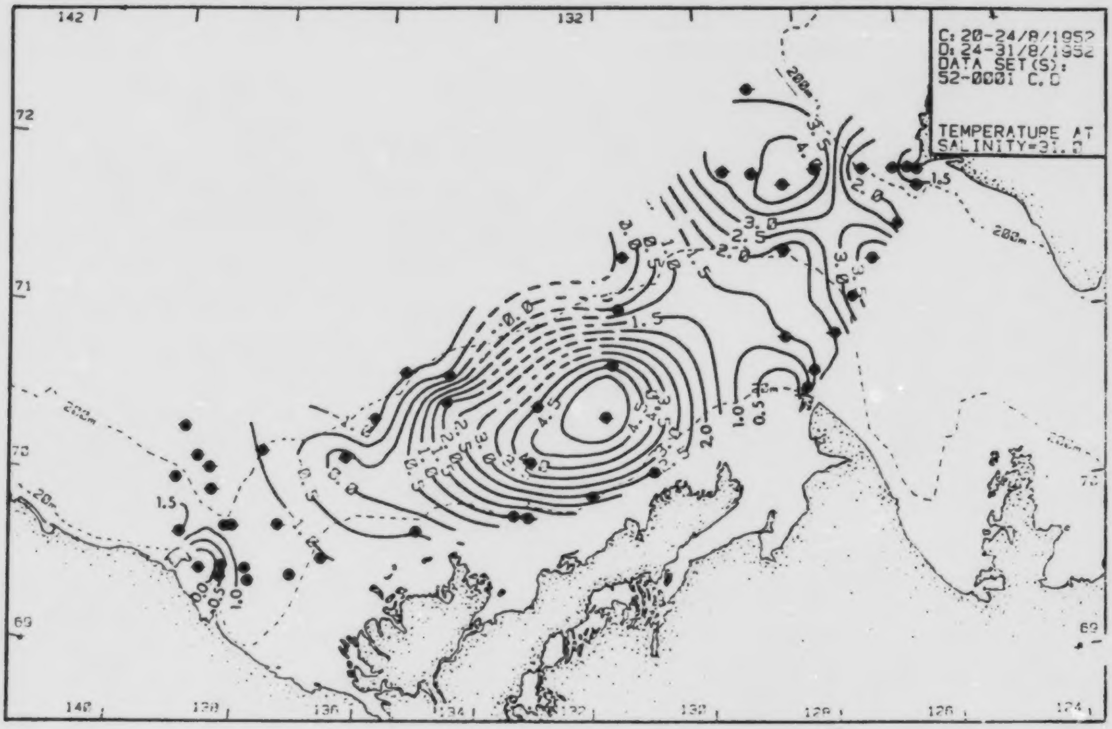

C: 20-24/8/1952
C: 24-31/8/1952
DATA SET(S):
52-0001 C.D
SALINITY AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
30
28
26
24
22
20
18
16
14
6
4


C: 20-24/8/1952
D: 24-31/8/1952
DATA SET(S):
52-0001 C,D
TEMPERATURE AT
DEPTH=20.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
4.0
-1.0
3.0
3.5
2.5
2.0
1.0
0.0
0.5
-0.5
-1.5

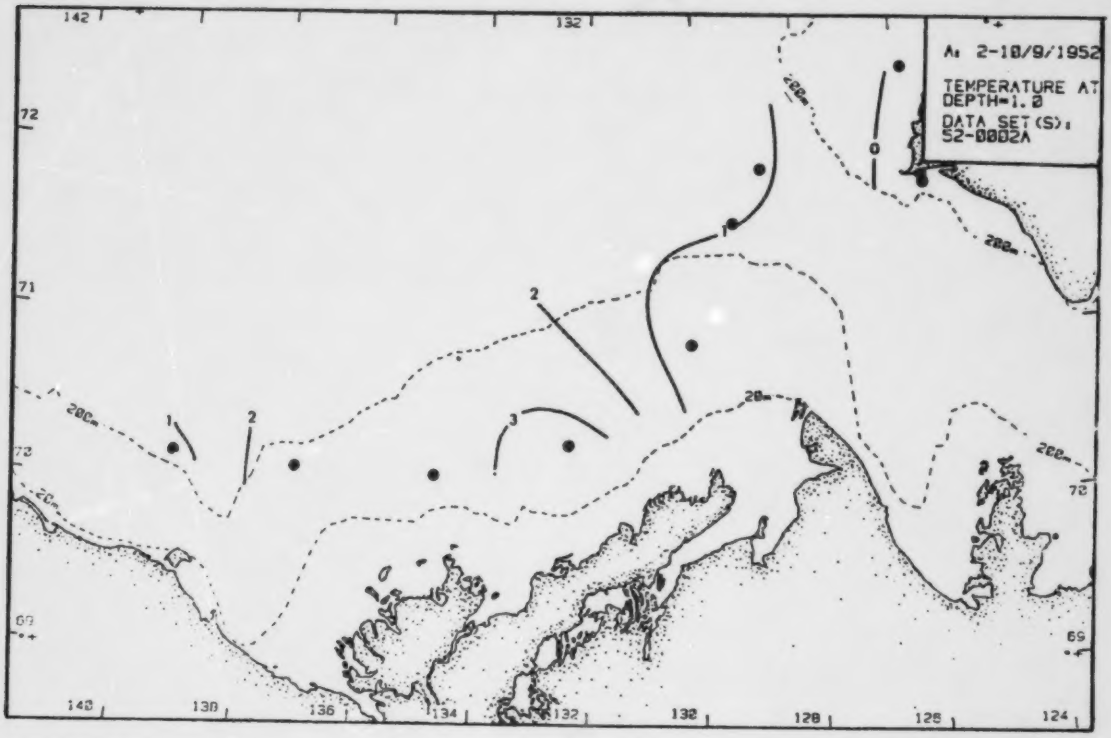

C: 20-24/8/1952
D: 24-31/8/1952
DATA SET(S):
52-0001 C,D
SALINITY AT
DEPTH=20.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
30.5
31.0
31.5
32.0
32.5

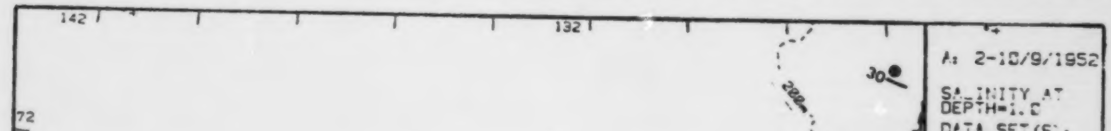

C: 20-24/8/1952
D: 24-31/8/1952
DATA SET(S):
52-0021 C.D
TEMPERATURE AT
DEPTH-100.0
-1.5
-1.5
-1.5
-1.5
-1.4
-1.3
200m
20m
142
132
142
138
136
134
132
130
128
126
124
72
71
70
69

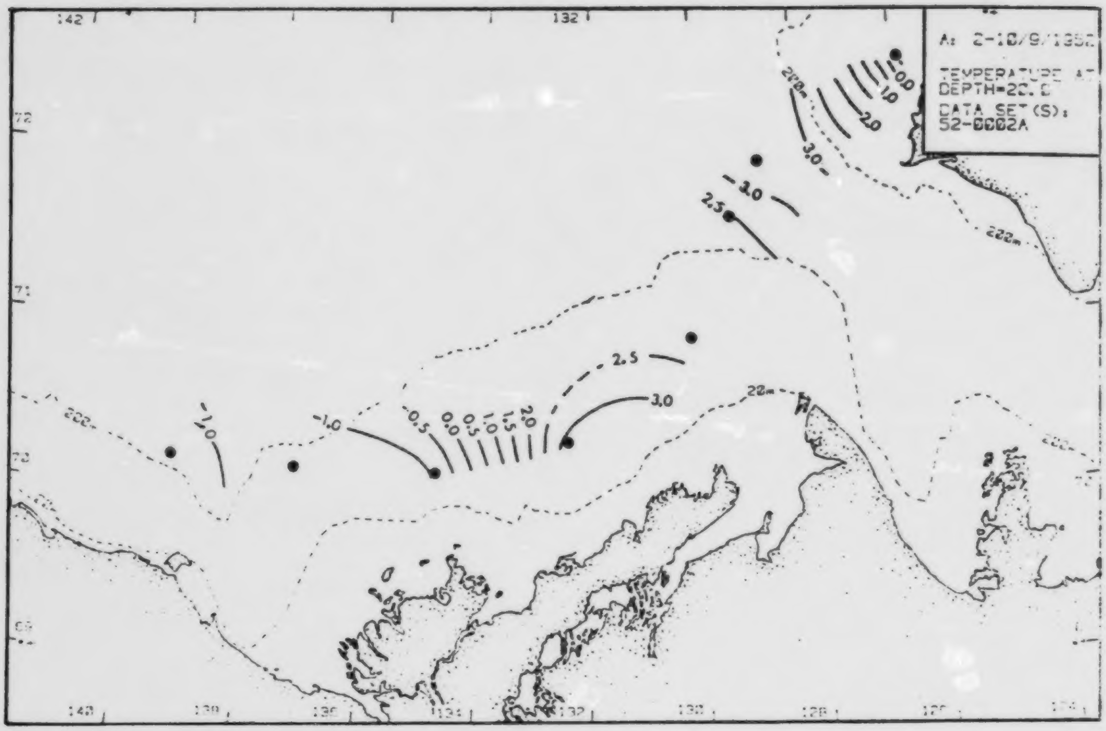

C: 20-24/8/1952
D: 24-31/8/1952
DATA SET(S):
52-0021 C.D
SALINITY AT
DEPTH-100.0
32.8
32.9
32.7
32.8
32.7
32.8
32.6
32.7
32.8
200m
20m
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69

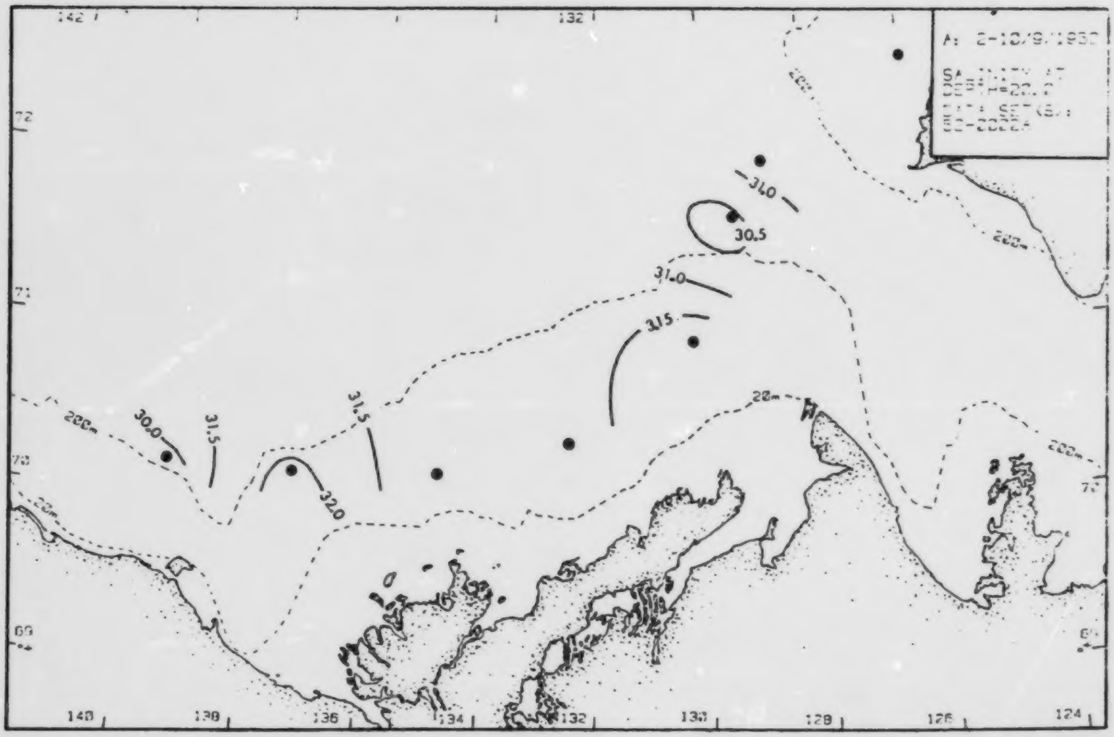


C: 20-24/8/1952
D: 24-31/8/1952
DATA SET(S):
52-0001 C.D
TEMPERATURE AT
SALINITY=31.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5

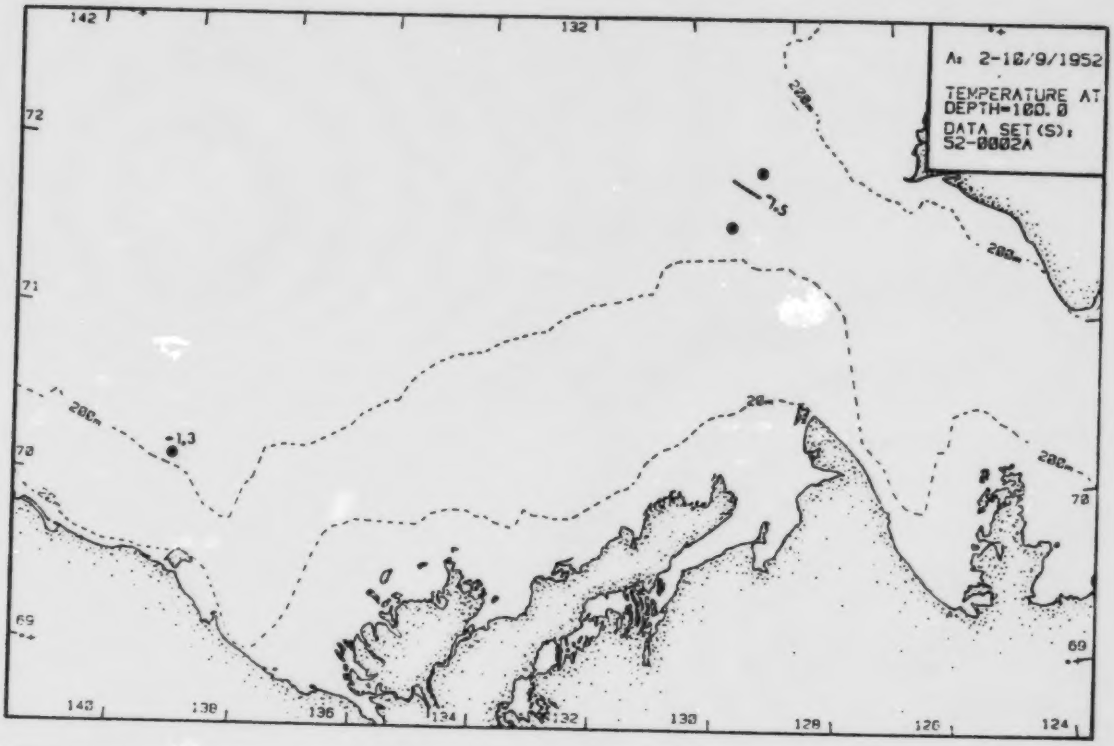

A: 2-10/9/1952
TEMPERATURE AT
DEPTH=1.0
DATA SET(S):
52-0002A
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
0
1
2
3

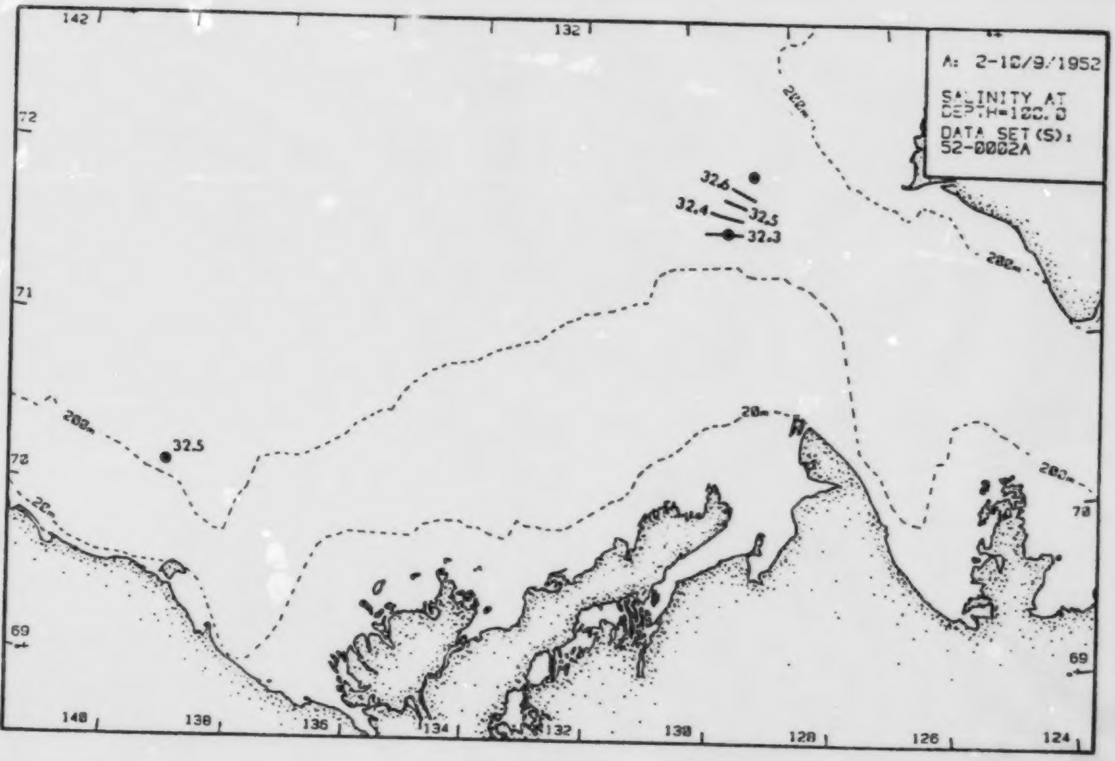

A: 2-10/9/1952
SALINITY AT
DEPTH=1.0
DATA SET(S):
52-0002A
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
19
20
21
22
23
24
25
26
27
28
29
30
31

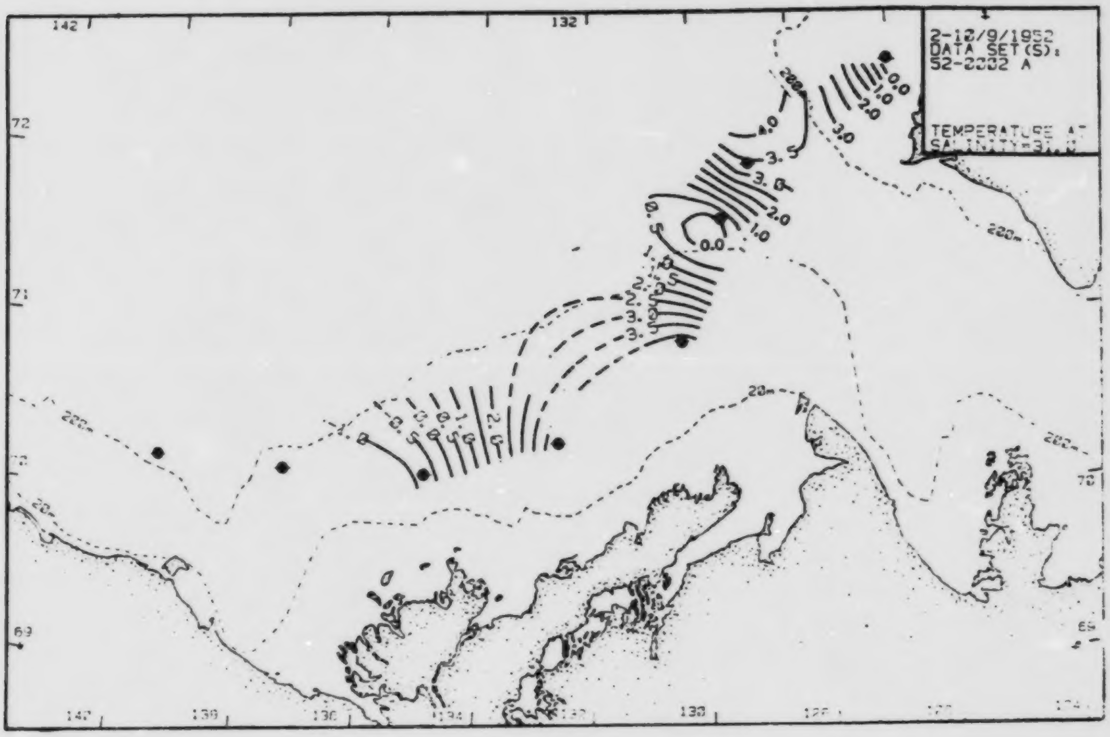

A: 2-10/9/1952
TEMPERATURE AT
DEPTH=20.0
DATA SET(S):
52-0002A
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0

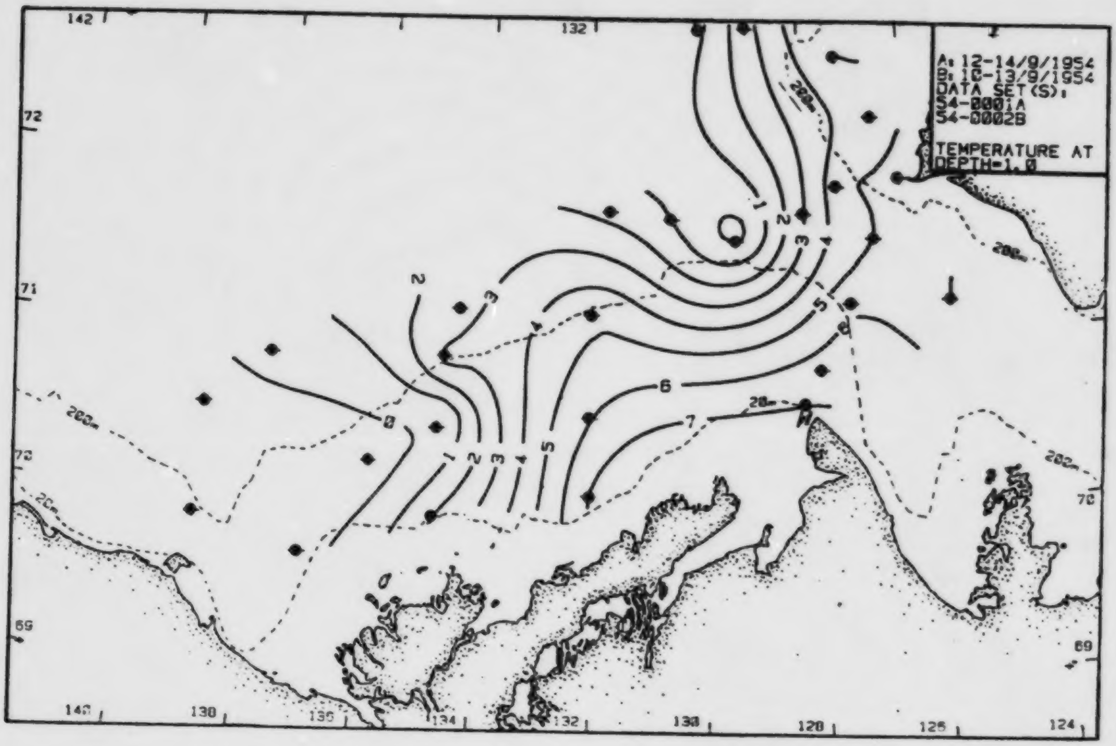

A: 2-10/9/1952
SALINITY AT
DEPTH=20.0
DATA SET(S):
52-0002A
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
30.0
30.5
31.0
31.5
32.0

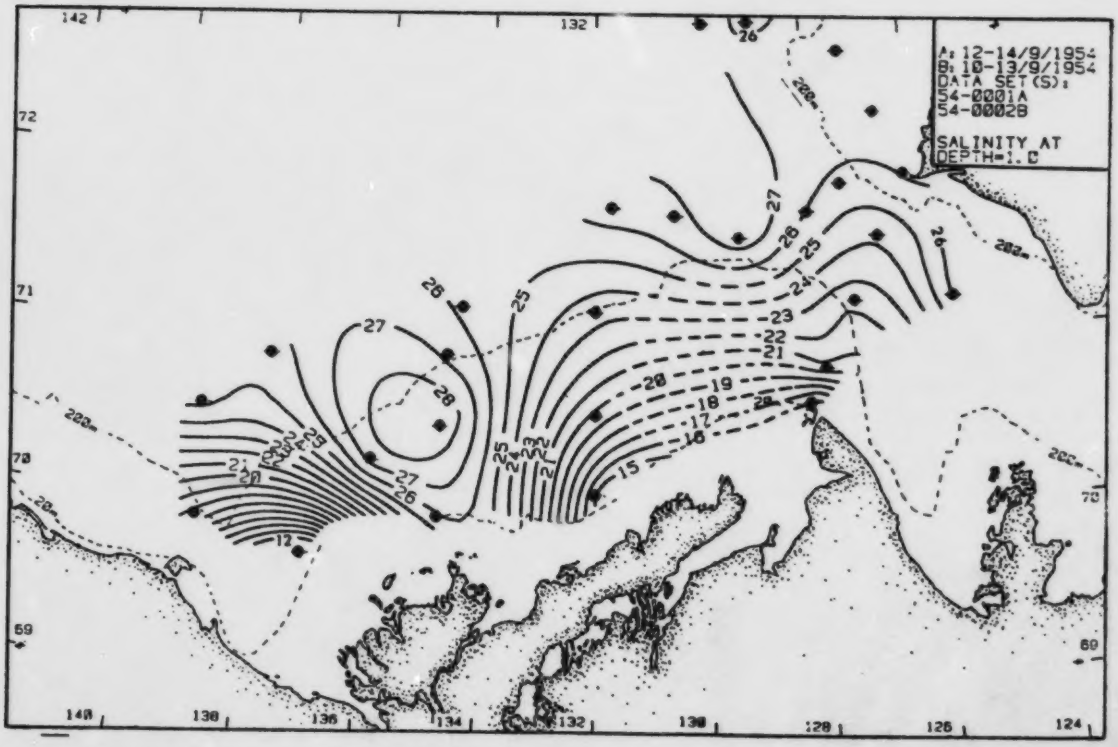
2 24

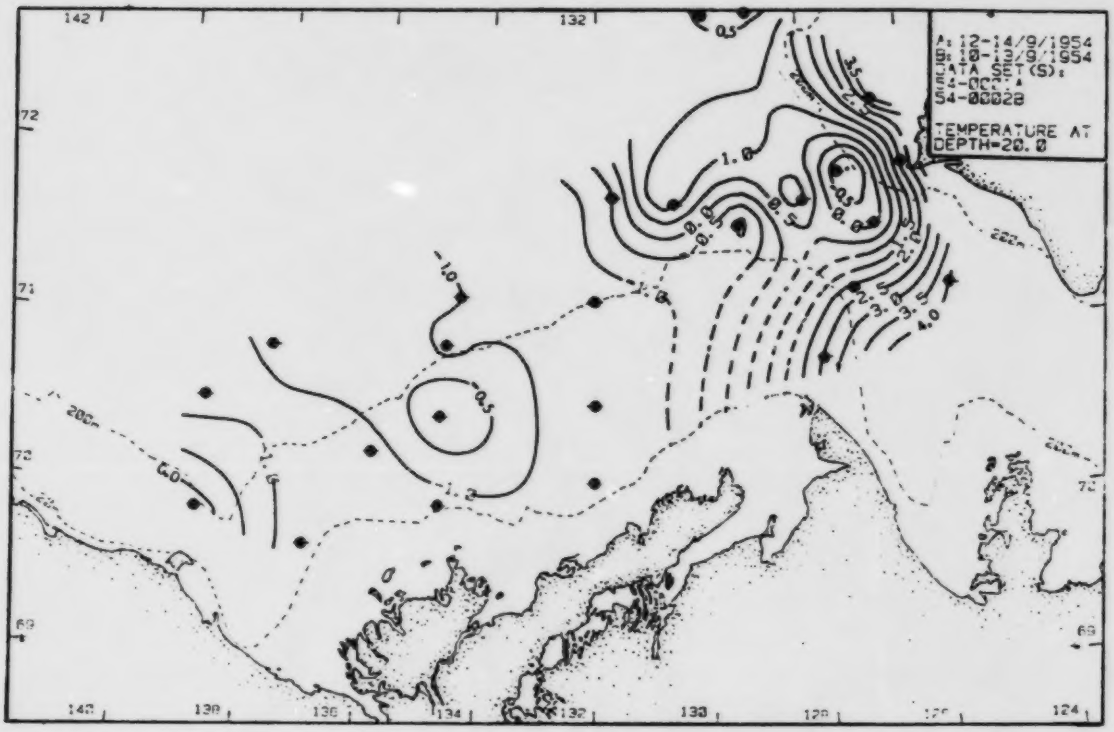

A: 2-10/9/1952
TEMPERATURE AT DEPTH=100.0
DATA SET(S): 52-0002A
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
70
69
200m
200m
200m
20m
20m
-1.3
-1.5

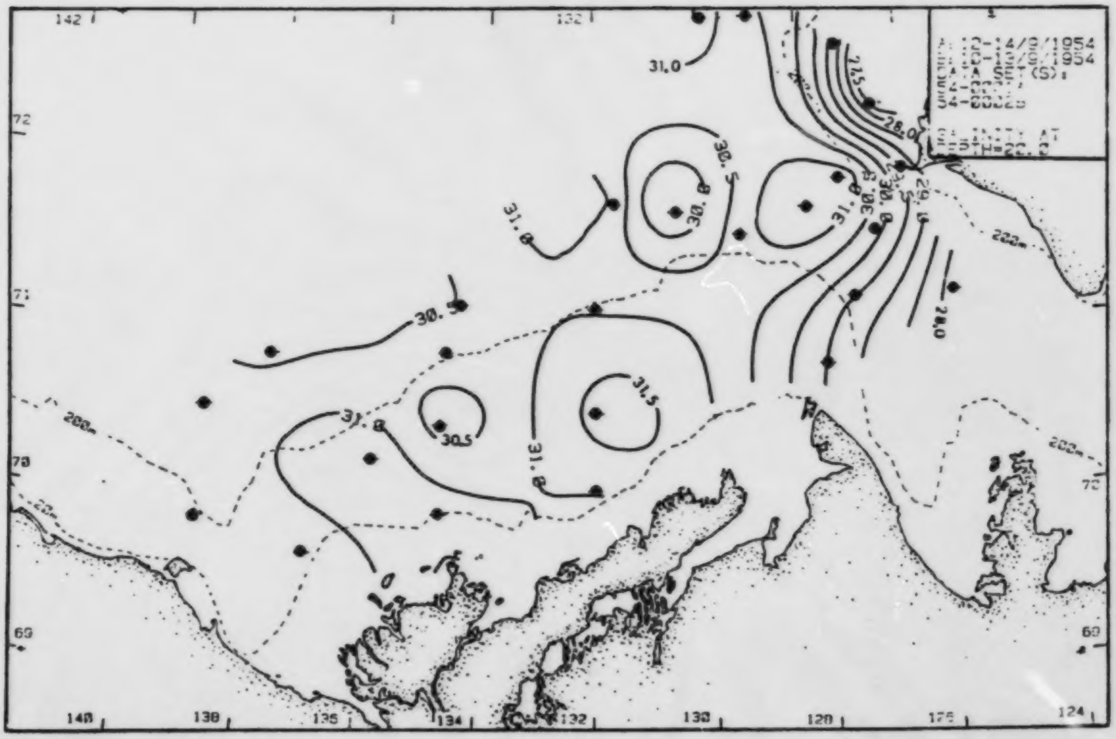

A: 2-10/9/1952
SALINITY AT DEPTH=100.0
DATA SET(S): 52-0002A
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
70
69
200m
200m
200m
200m
20m
20m
32.6
32.5
32.4
32.3
32.5

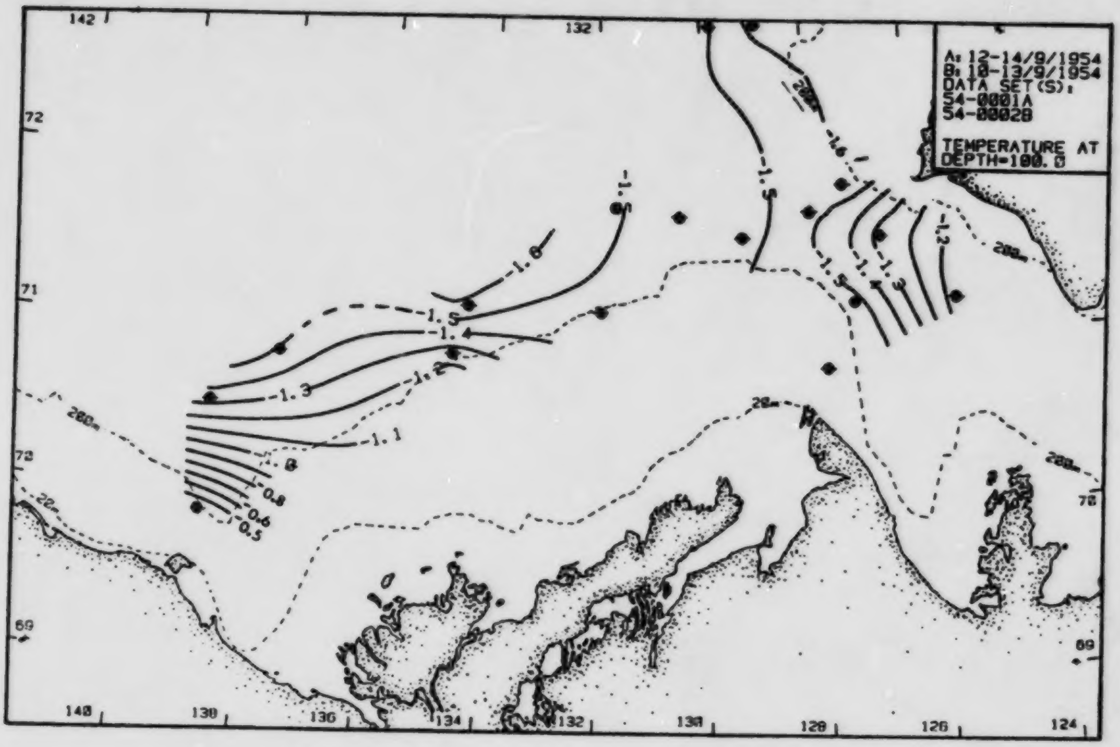

142
132
72
71
70
69
2-10/9/1952
DATA SET(S):
52-2002 A
TEMPERATURE AT
SALINITY=3
0.0
1.0
2.0
3.0
3.5
4.0
0.5
200m
20m
140
138
136
134
130
128
126
124

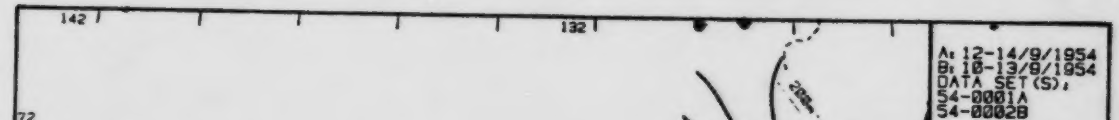

A: 12-14/9/1954
B: 10-13/9/1954
DATA SET(S):
54-0001A
54-0002B
TEMPERATURE AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
0
1
2
3
4
5
6
7

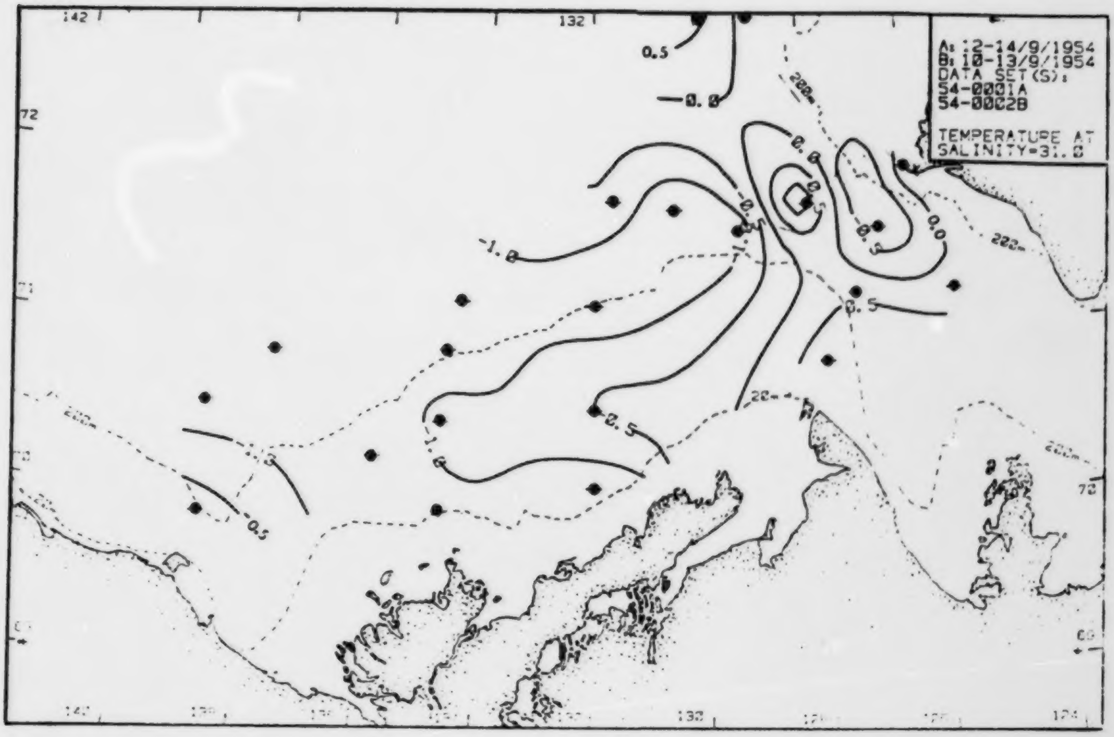

A: 12-14/9/1954
B: 10-13/9/1954
DATA SET(S):
54-0001A
54-0002B
SALINITY AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
12
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29

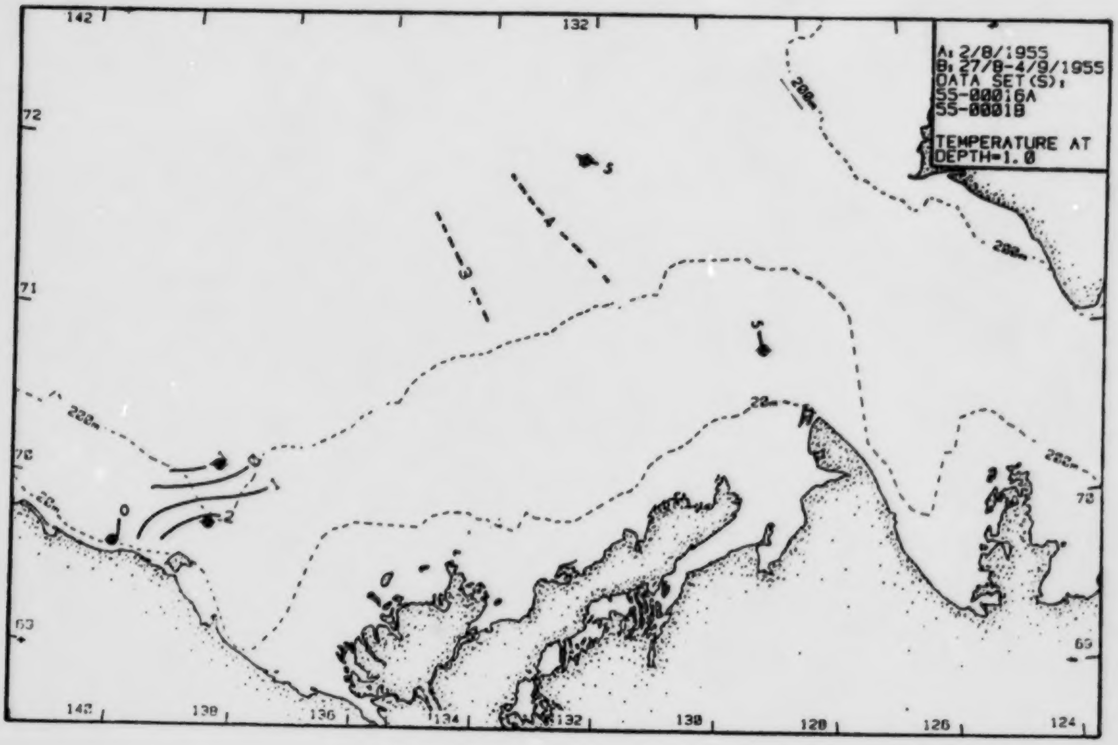

A: 12-14/9/1954
B: 10-13/9/1954
DATA SET(S):
54-0002A
54-0002B
TEMPERATURE AT
DEPTH=20.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
0.5
1.0
-1.0
0.5
1.0
2.0
2.5
3.0
3.5
4.0
200m
0.0

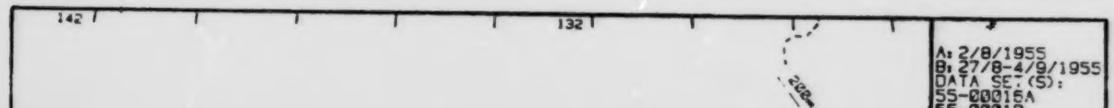

A: 12-14/9/1954
B: 10-13/9/1954
DATA SET(S):
54-0002A
54-0002B
SALINITY AT
DEPTH=20.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
31.0
30.5
30.0
31.0
31.5
28.0
29.5
29.0
200m

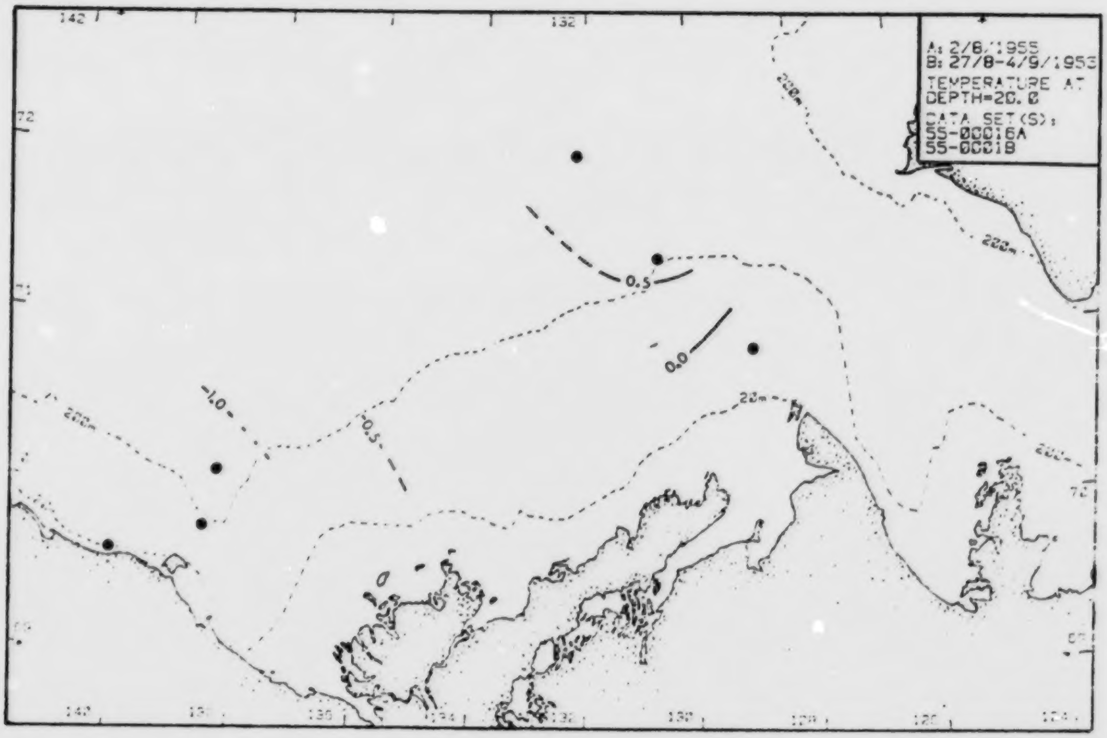

A: 12-14/9/1954
B: 10-13/9/1954
DATA SET(S):
54-0001A
54-0002B
TEMPERATURE AT
DEPTH=100.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
-1.6
-1.5
-1.4
-1.3
-1.2
-1.1
-0.8
-0.6
-0.5
-1.5
-1.4
-1.3
-1.2
200m
20m

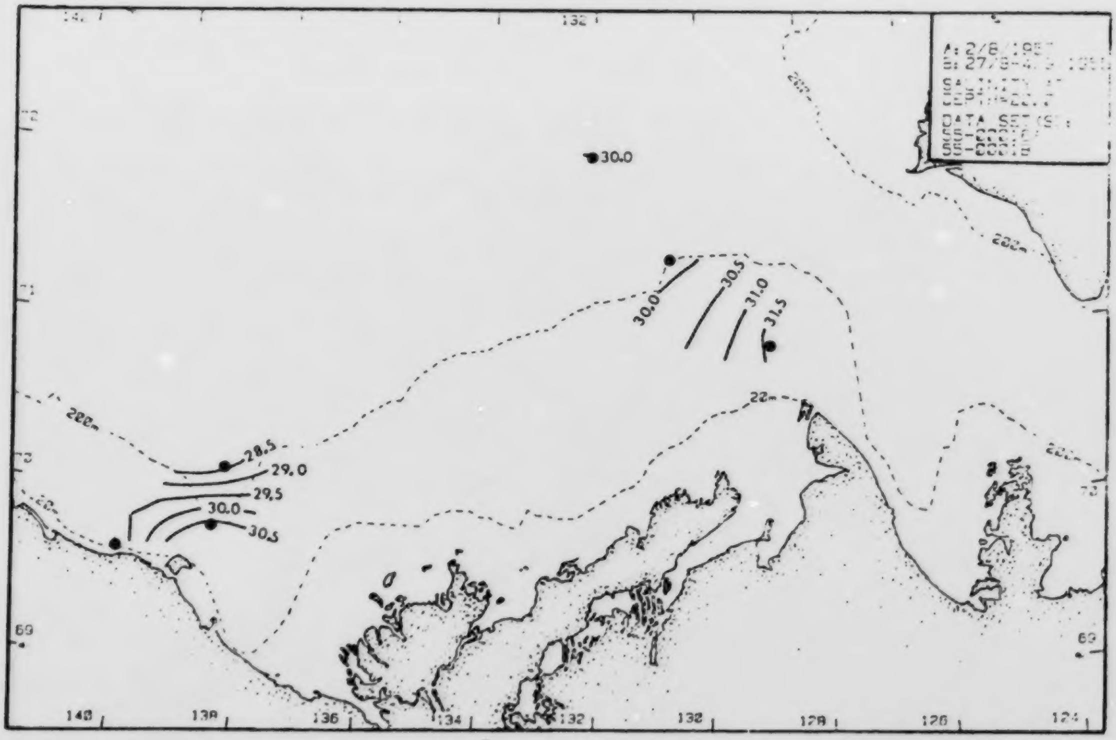

A: 12-14/9/1954
B: 10-13/9/1954
DATA SET(S):
54-0001A
54-0002B
SALINITY AT
DEPTH=100.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
32.2
32.3
32.4
32.5
32.6
32.7
32.8
32.1
32.0
31.8
31.7
200m
20m

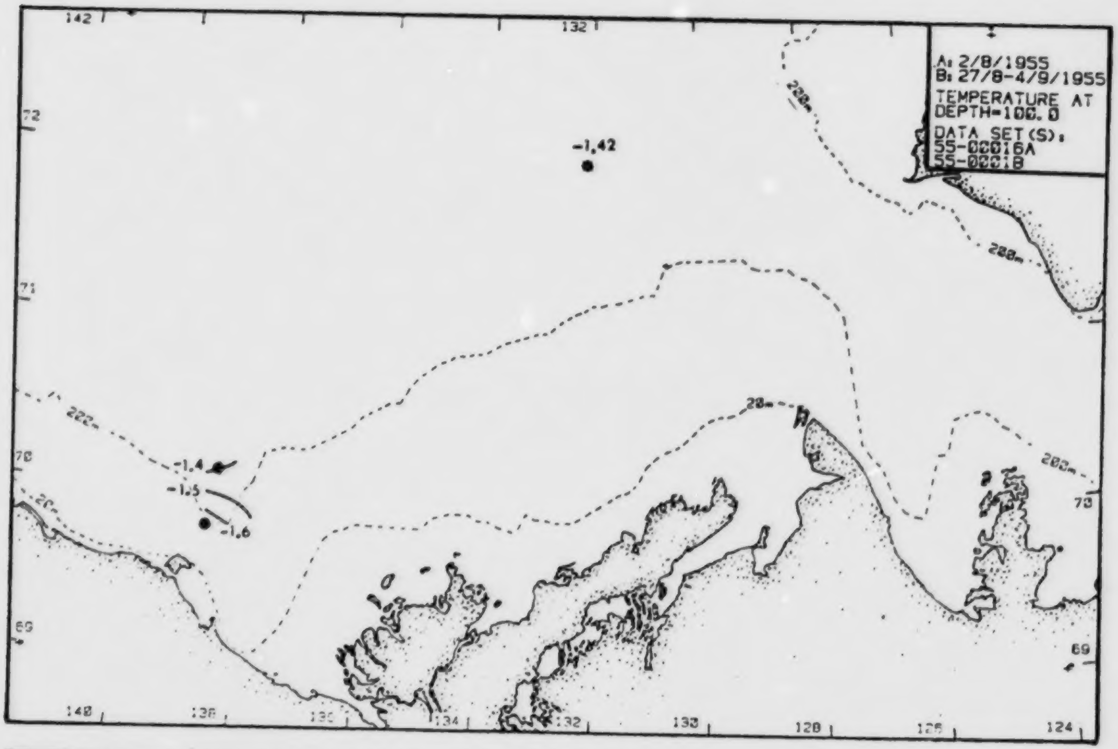

A: 12-14/9/1954
B: 10-13/9/1954
DATA SET(S):
54-0001A
54-0002B
TEMPERATURE AT
SALINITY=31.0
142
132
72
71
70
69
130
124
0.5
0.0
-1.0
200m
20m

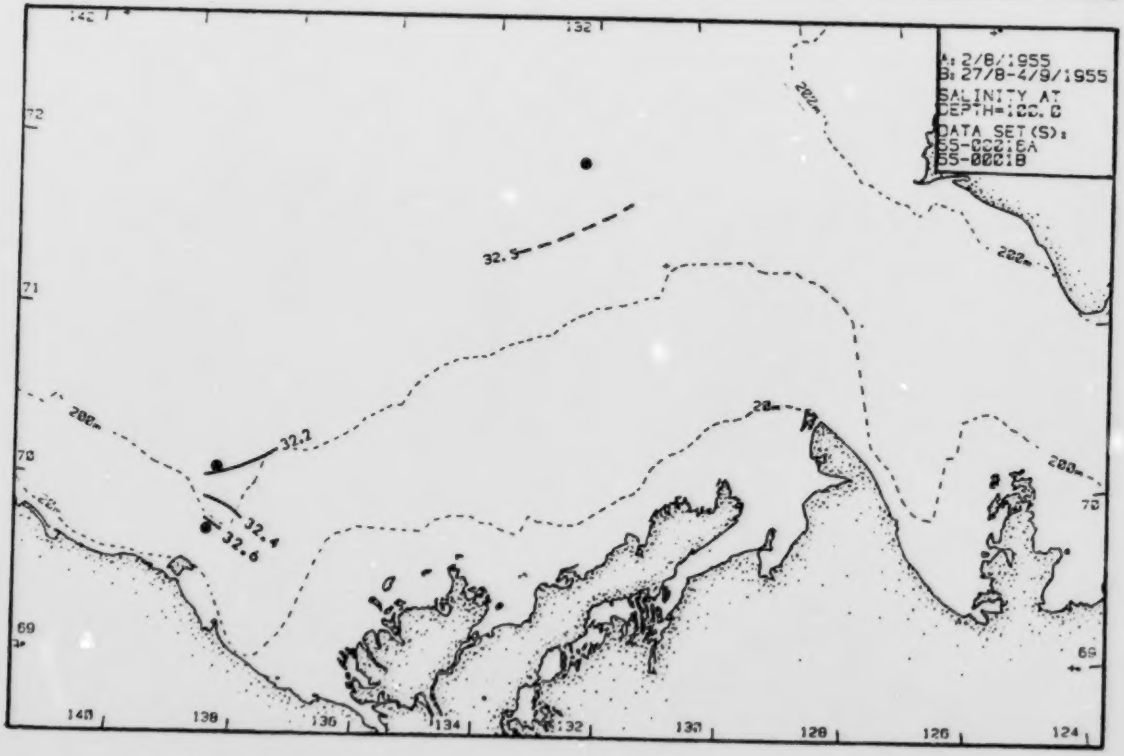

A: 2/8/1955
B: 27/8-4/9/1955
DATA SET(S):
55-00016A
55-0001B
TEMPERATURE AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
0
1
2
3
4
5

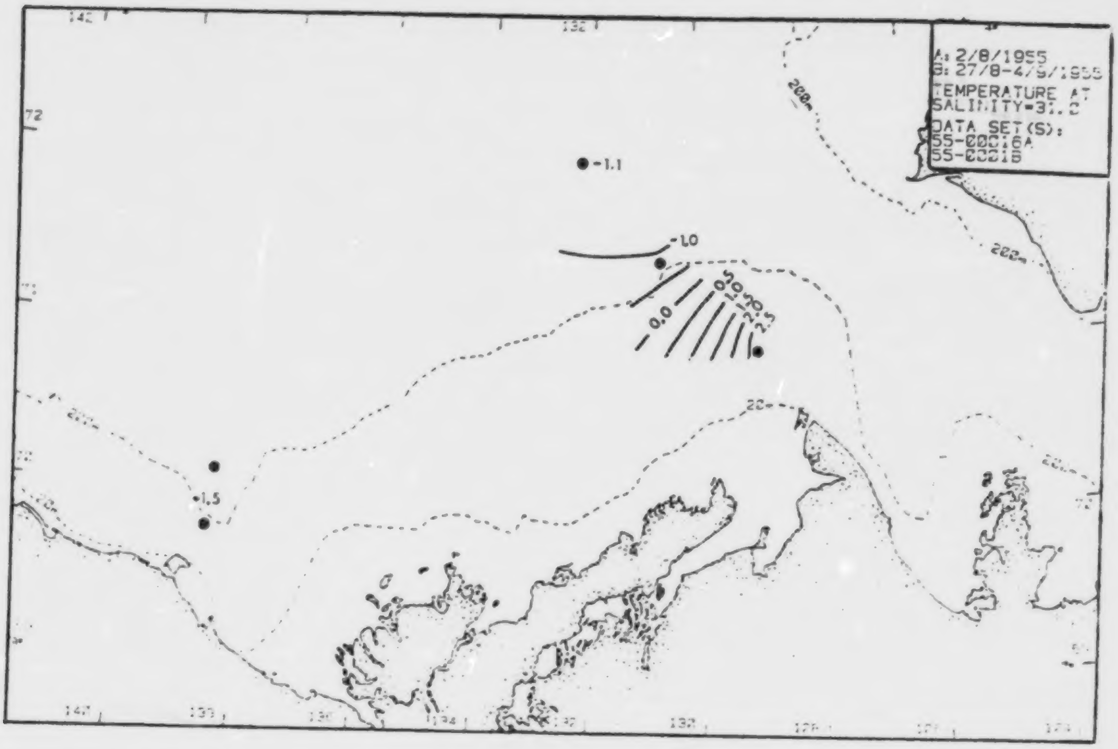

A: 2/8/1955
B: 27/8-4/9/1955
DATA SET(S):
55-00016A
55-0001B
SALINITY AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
24
25
26
27
28

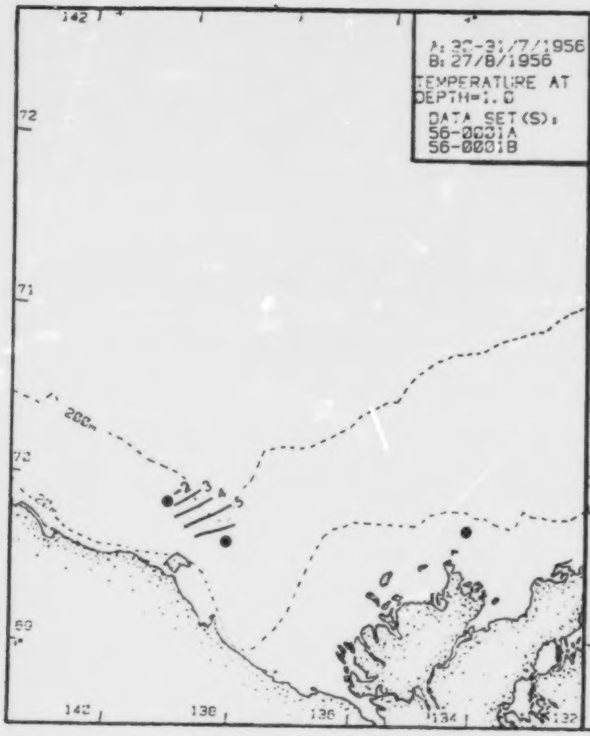

A: 2/8/1955
B: 27/8-4/9/1953
TEMPERATURE AT
DEPTH=20.0
DATA SET(S):
55-00016A
55-00018
142
132
72
200m
0.5
0.0
-1.0
-0.5
20m
140
138
136
134
132
130
128
126
124

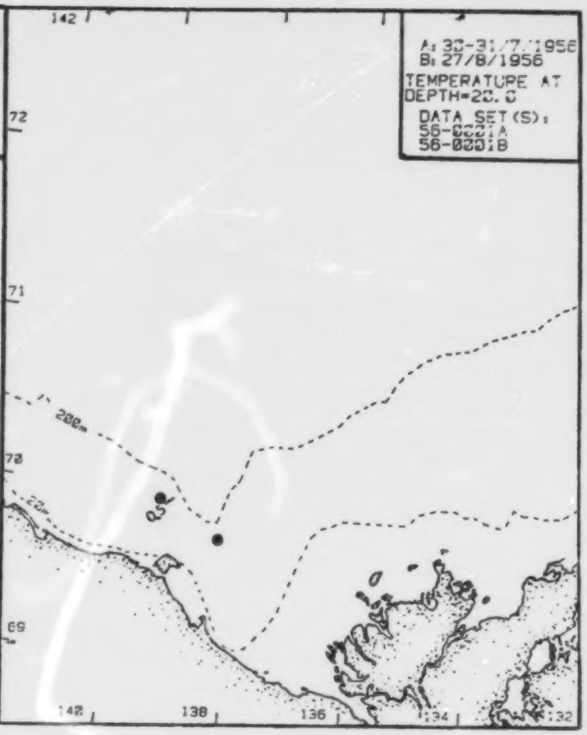

A: 2/8/1955
B: 27/8-4/9/1953
SALINITY AT
DEPTH=20.0
DATA SET(S):
55-00016A
55-00018
142
132
72
69
200m
20m
30.0
30.5
31.0
31.5
28.5
29.0
29.5
140
138
136
134
132
130
128
126
124

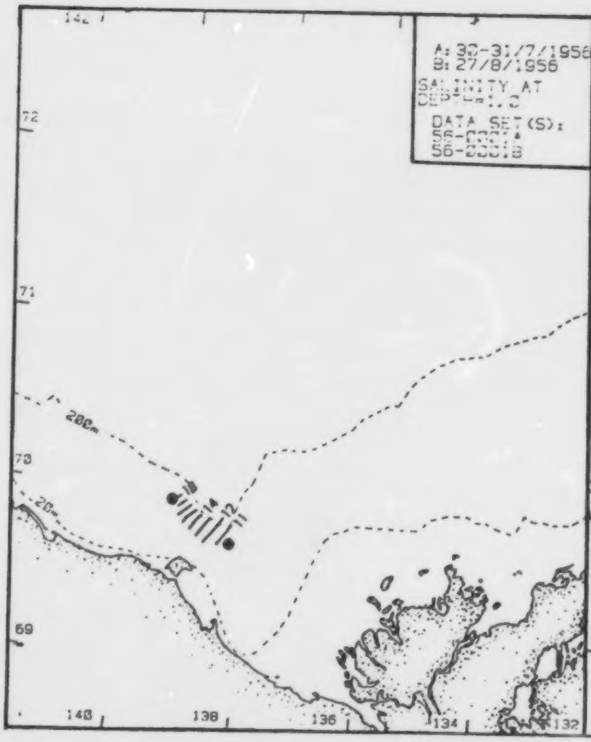

A: 2/8/1955
B: 27/8-4/9/1955
TEMPERATURE AT
DEPTH=100.0
DATA SET(S):
55-00016A
55-0001B
-1.42
-1.4
-1.5
-1.6
200m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124

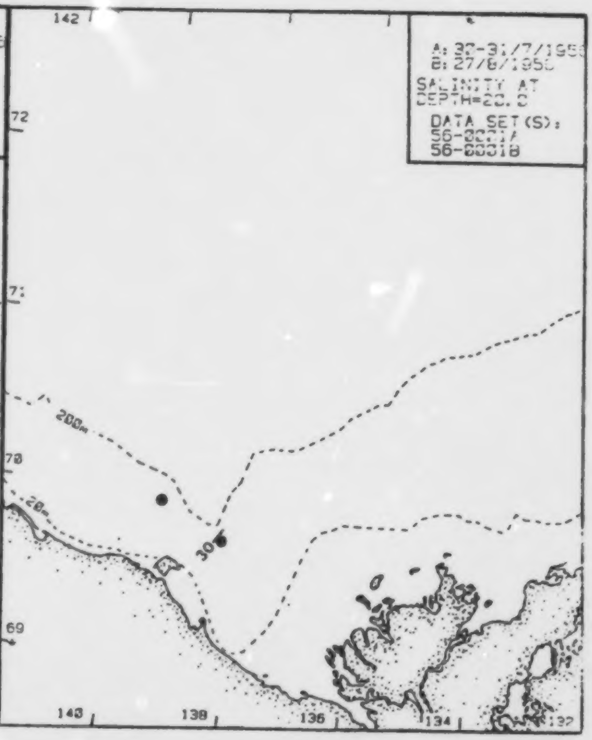

A: 2/8/1955
B: 27/8-4/9/1955
SALINITY AT
DEPTH=100.0
DATA SET(S):
55-00016A
55-0001B
32.5
32.2
32.4
32.6
200m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124

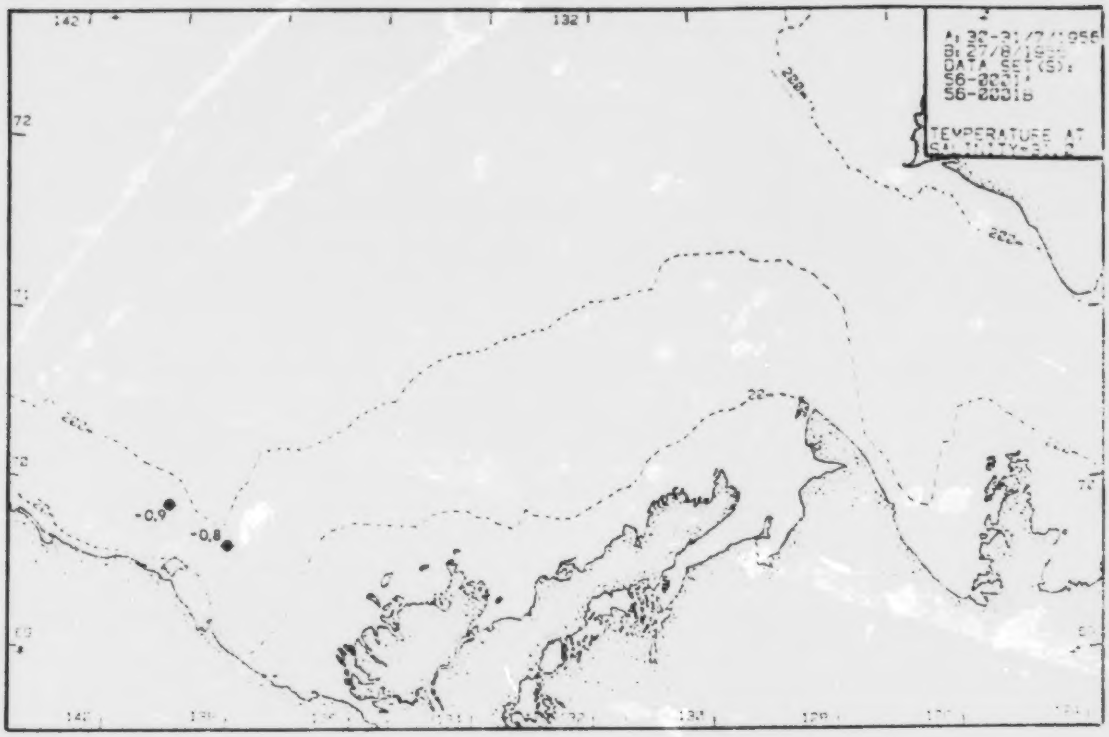

A: 2/8/1955
B: 27/8-4/9/1955
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
55-00016A
55-00016B
132
72
-1.1
-1.0
0.0
0.5
1.0
1.5
2.0
2.5
-1.5
200
200
200
200
200
200
140
138
136
134
132
130
128
126
124

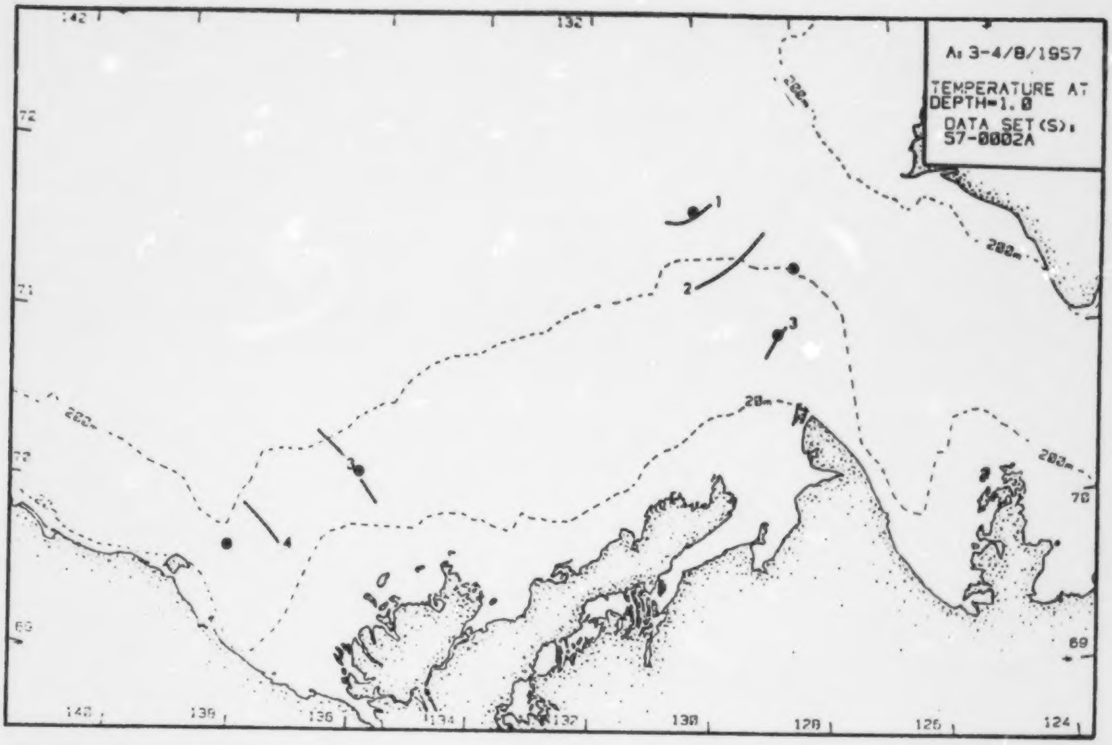

A: 30-31/7/1956
B: 27/8/1956
TEMPERATURE AT
DEPTH=1.0
DATA SET(S):
56-0001A
56-0001B
142
72
71
70
69
200m
20m
2
3
4
5
140
138
136
134
132

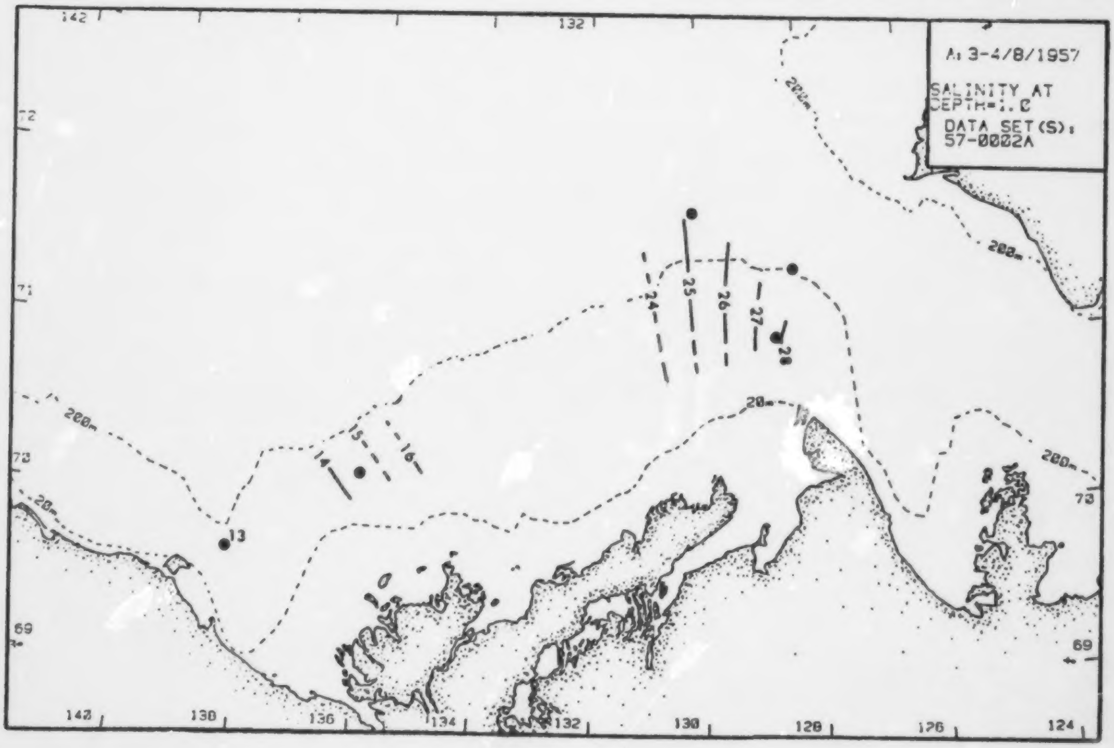

A: 30-31/7/1956
B: 27/8/1956
TEMPERATURE AT
DEPTH=20.0
DATA SET(S):
56-0001A
56-0001B
142
72
71
70
69
200m
20m
0.5
140
138
136
134
132

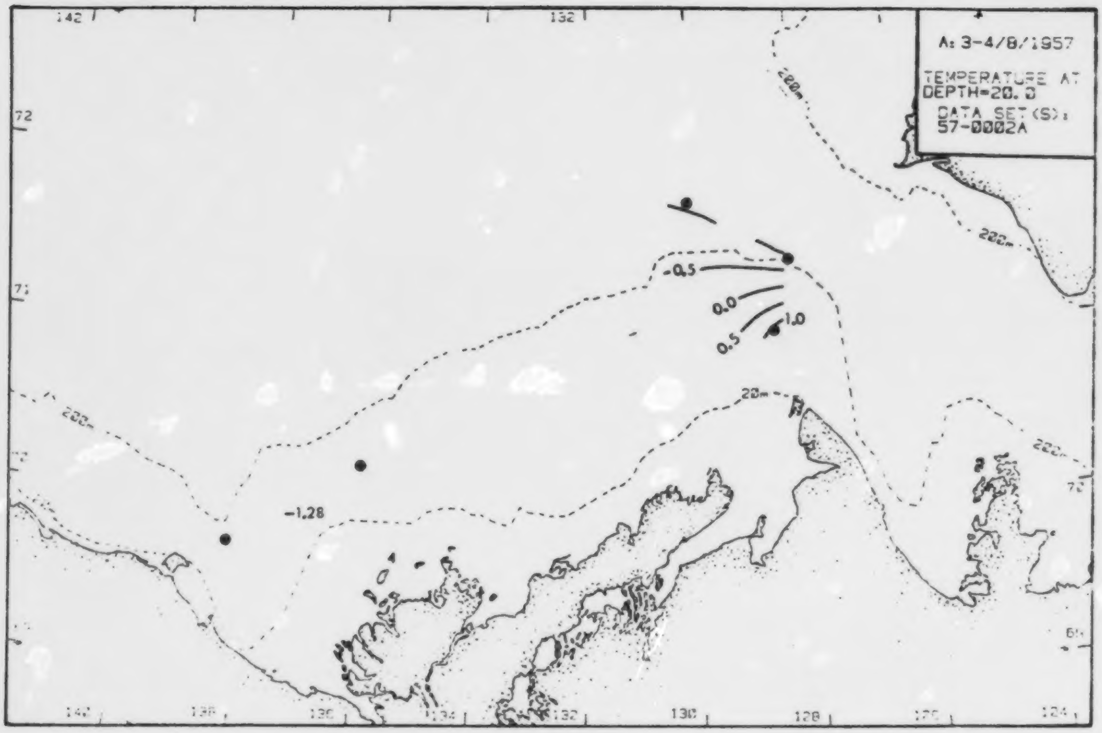

A: 30-31/7/1956
B: 27/8/1956
SALINITY AT
DEPTH=1.0
DATA SET(S):
56-0001A
56-0001B
142
72
71
70
69
200m
20m
140
138
136
134
132

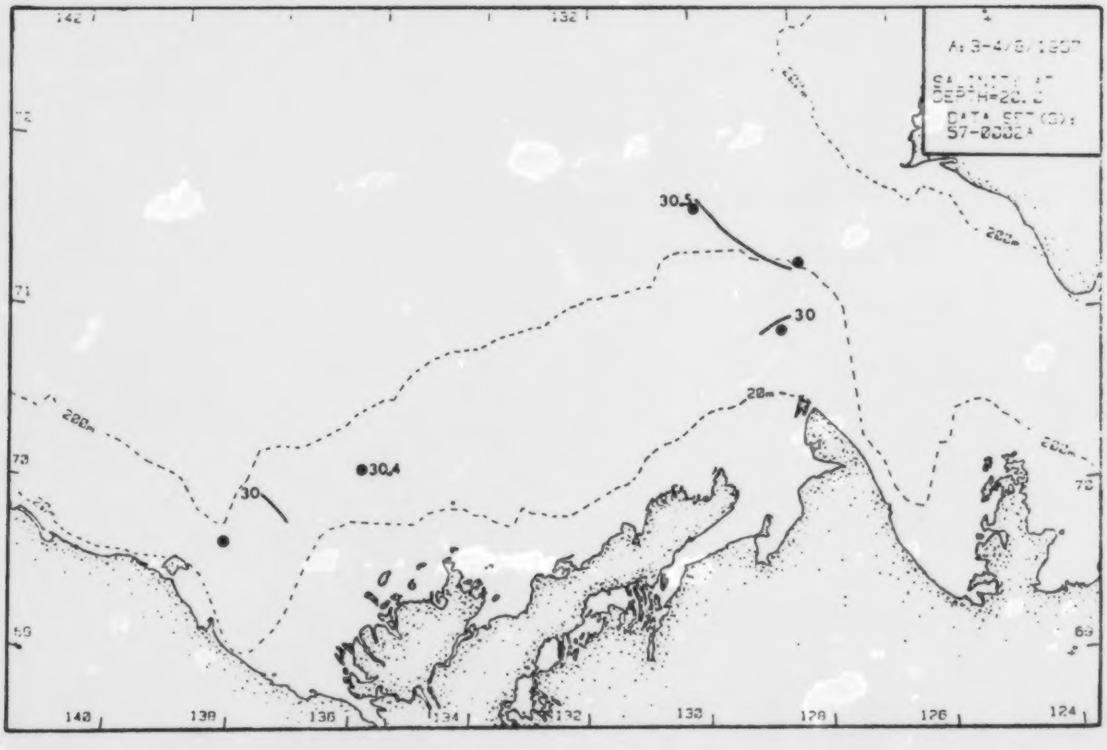

A: 30-31/7/1956
B: 27/8/1956
SALINITY AT
DEPTH=20.0
DATA SET(S):
56-0001A
56-0001B
142
72
71
70
69
200m
20m
30
140
138
136
134
132

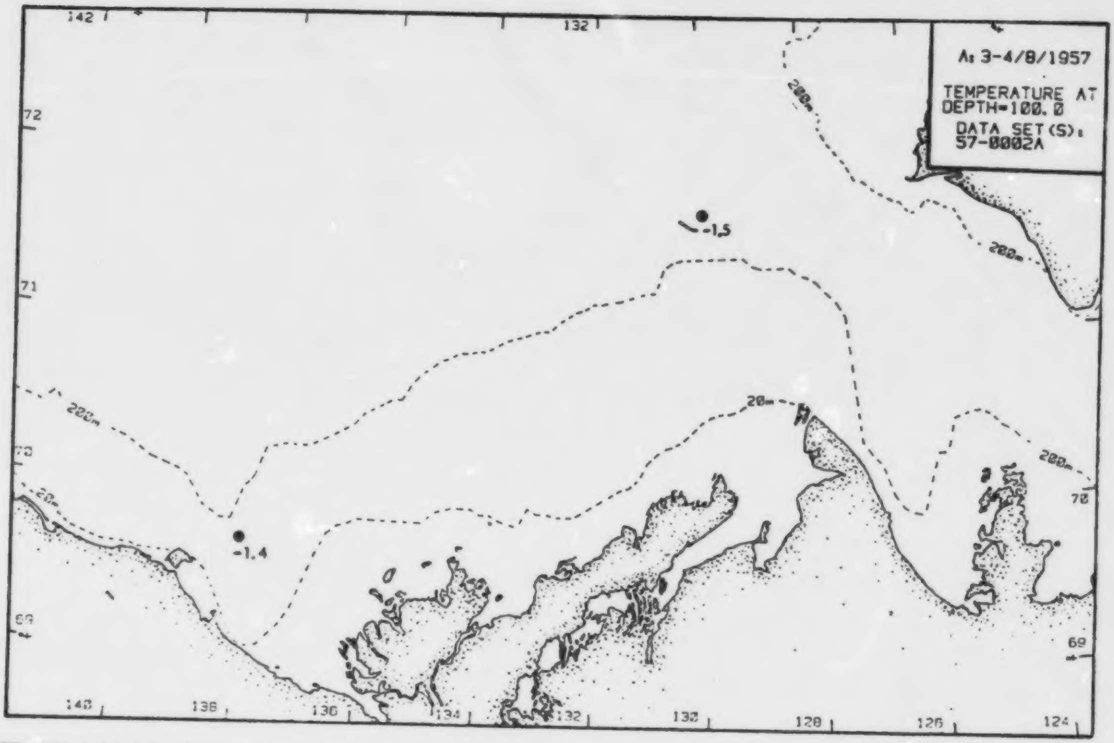

142
132
72
72
72
-0.9
-0.8
200
200
200
20
A: 30-31/7/1956
B: 27/8/1956
DATA SET(S):
56-0001A
56-0001B
TEMPERATURE AT

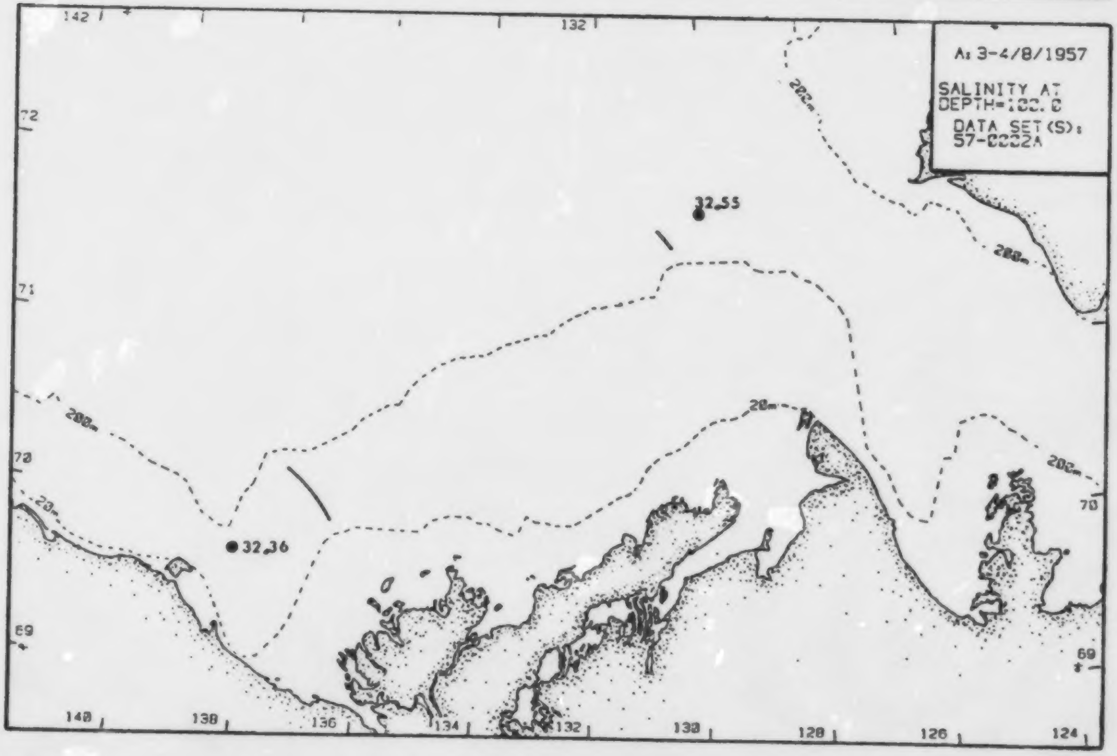

A: 3-4/8/1957
TEMPERATURE AT DEPTH=1.0
DATA SET(S): 57-0002A
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
1
2
3
4

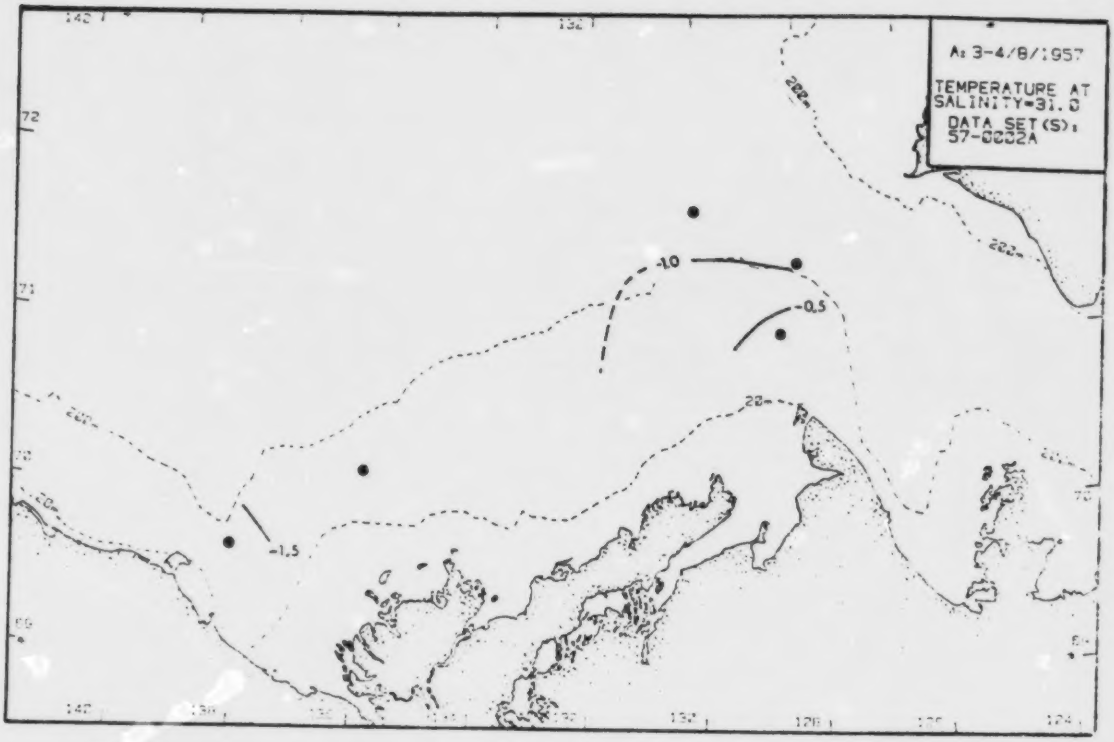

A: 3-4/8/1957
SALINITY AT DEPTH=1.0
DATA SET(S): 57-0002A
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
13
14
15
16
24
25
26
27
28


A: 3-4/8/1957
TEMPERATURE AT DEPTH=20.0
DATA SET(S): 57-0002A
142
132
72
71
70
69
200m
20m
-0.5
0.0
0.5
1.0
-1.28
140
138
136
134
132
130
128
126
124


A: 3-4/8/1957
SALINITY AT DEPTH=20.0
DATA SET(S): 57-0002A
142
132
72
71
70
69
200m
20m
30.5
30
30.4
30
140
138
136
134
132
130
128
126
124


A: 3-4/8/1957
TEMPERATURE AT DEPTH=100.0
DATA SET(S): 57-0002A
-1.5
-1.4
200m
200m
200m
200m
20m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
70
69


A: 3-4/8/1957
SALINITY AT DEPTH=100.0
DATA SET(S): 57-0002A
32.55
32.36
200m
200m
200m
200m
20m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
70
69


A: 3-4/8/1957
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
57-0002A
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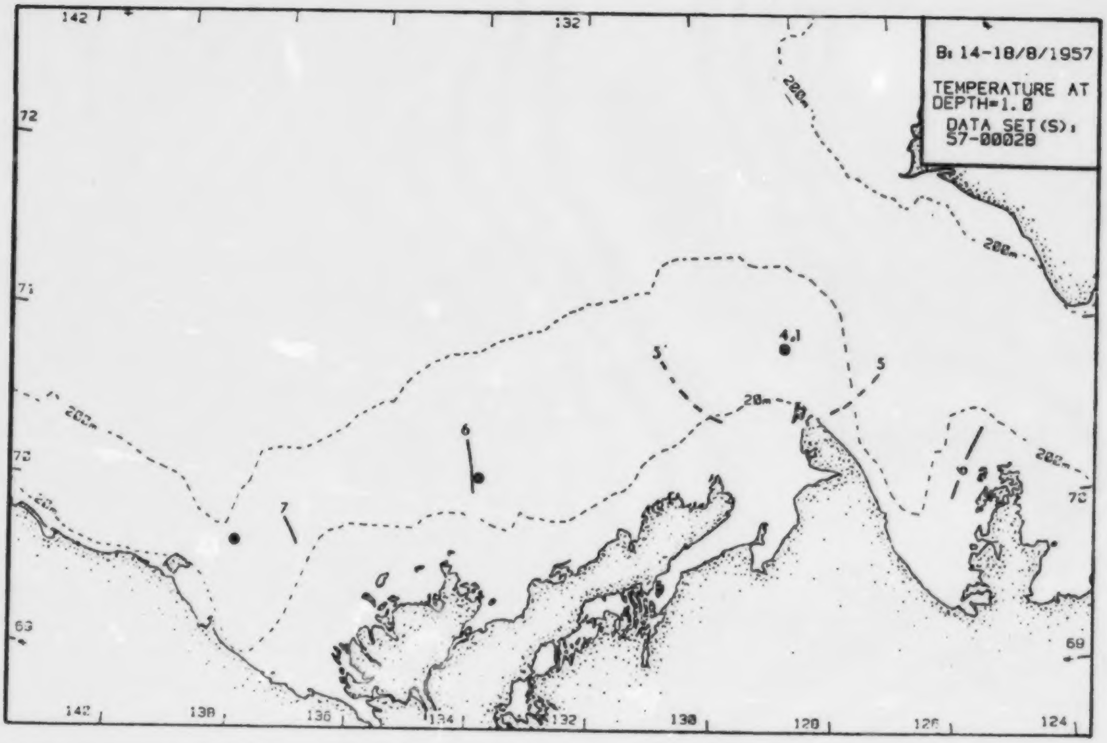
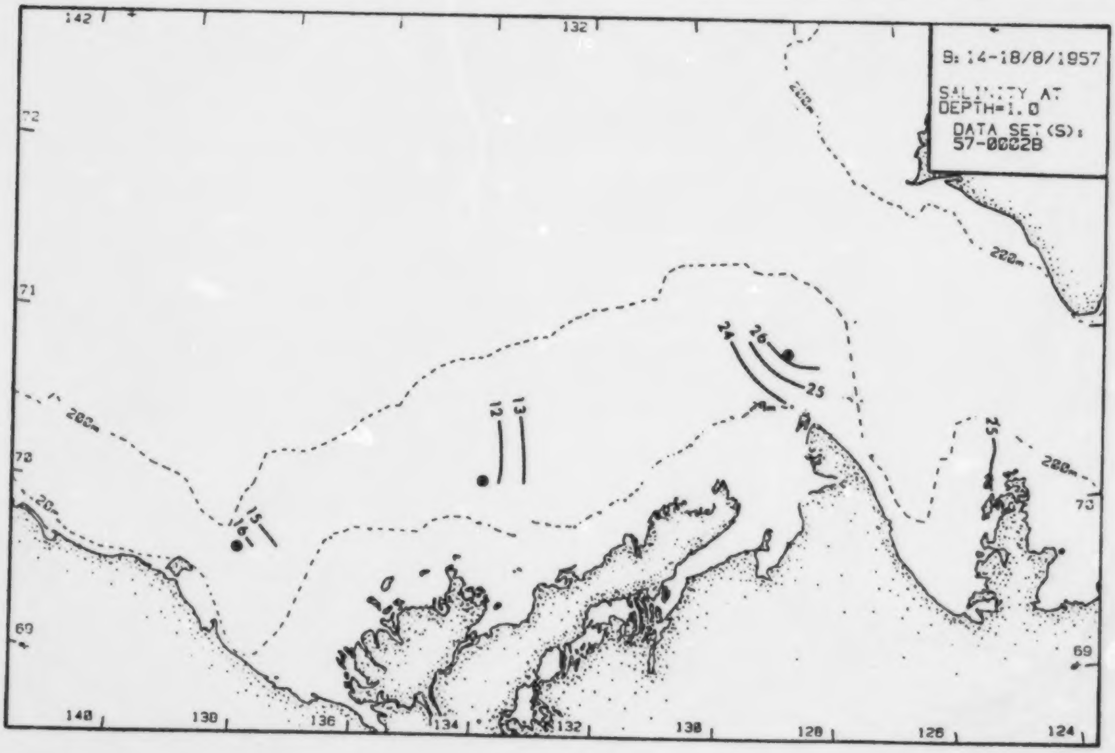
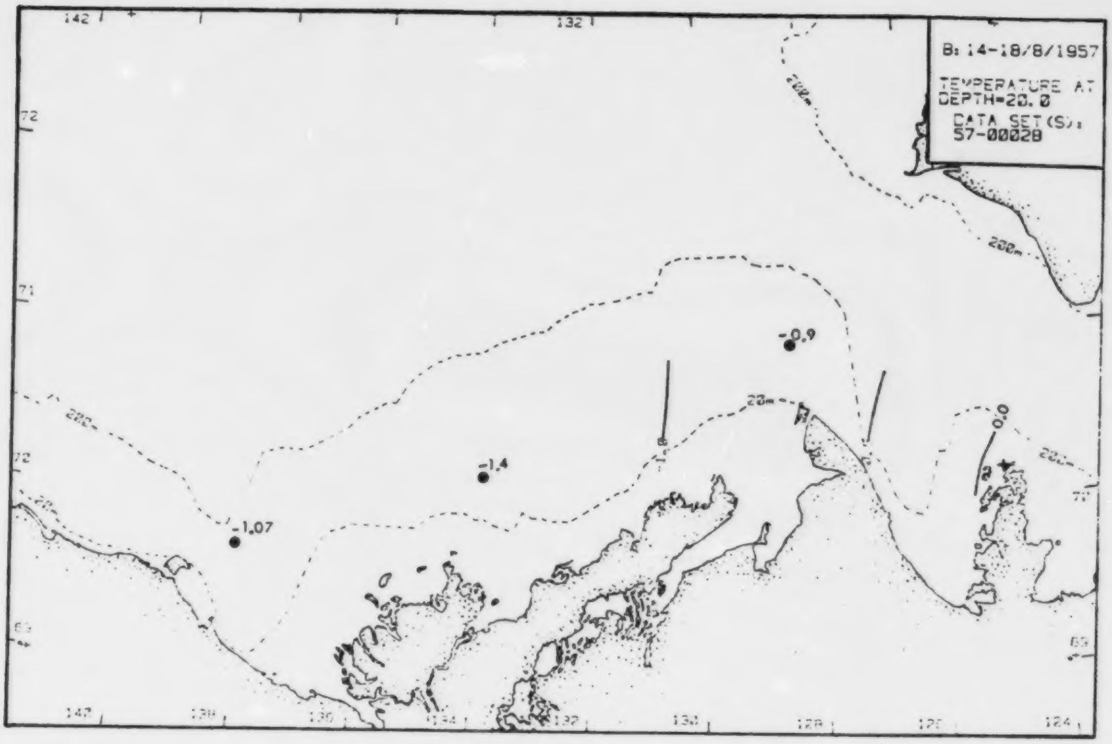
132
72
71
70
69
-1.0
-0.5
-1.5
200
20
140
132
128
124


B: 14-18/8/1957
TEMPERATURE AT DEPTH=1.0
DATA SET(S): 57-00028
142
132
72
71
70
69
200m
200m
200m
200m
20m
20m
7
6
4.1
5
5
6
70
69
142
138
136
134
132
130
128
126
124


B: 14-18/8/1957
SALINITY AT DEPTH=1.0
DATA SET(S): 57-00028
142
132
72
71
70
69
200m
200m
200m
200m
20m
20m
24
26
25
12
13
15
16
15
70
69
140
138
136
134
132
130
128
126
124


B: 14-18/8/1957
TEMPERATURE AT DEPTH=20.0
DATA SET(S): 57-00028
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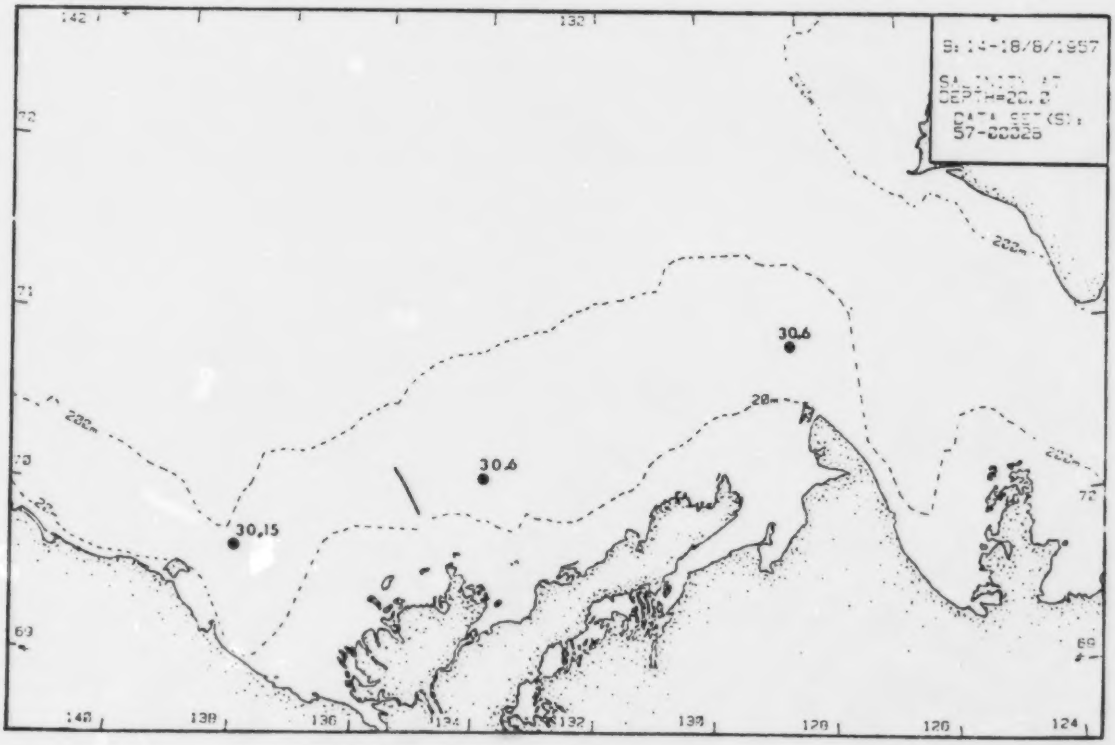
-1.4
-1.07
0.0
200m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124


B: 14-18/8/1957
SALINITY AT DEPTH=20.0
DATA SET(S): 57-00028
30.6
30.6
30.15
200m
20m
142
132
72
71
70
69
140
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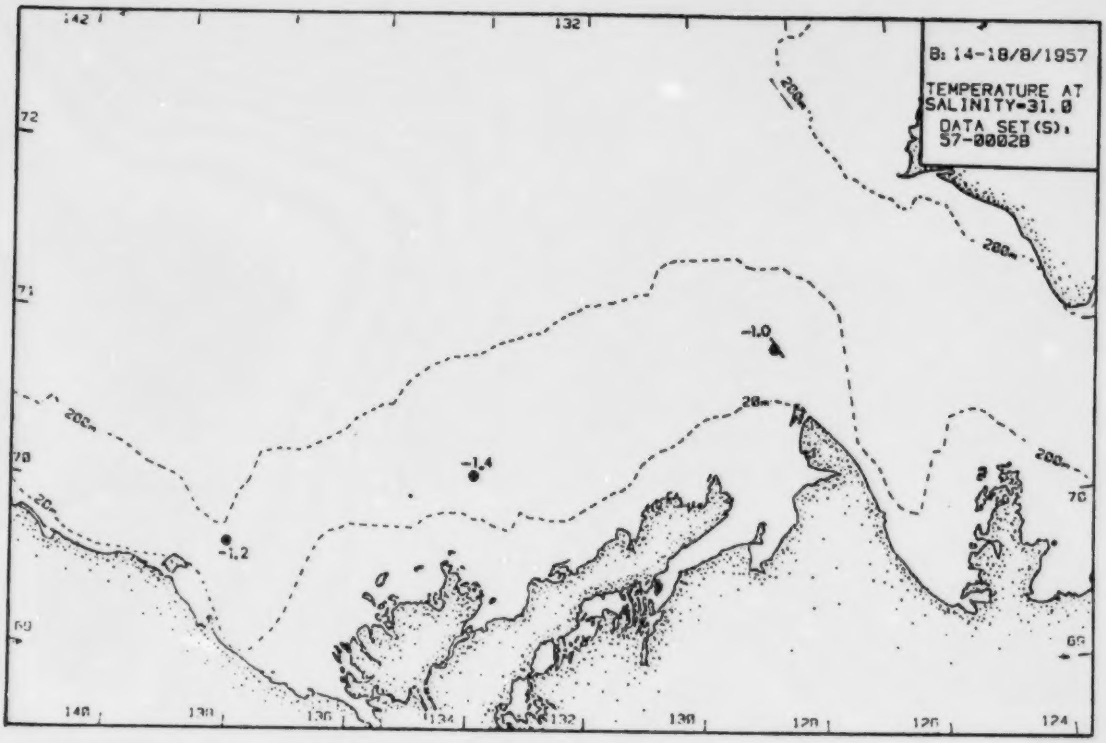
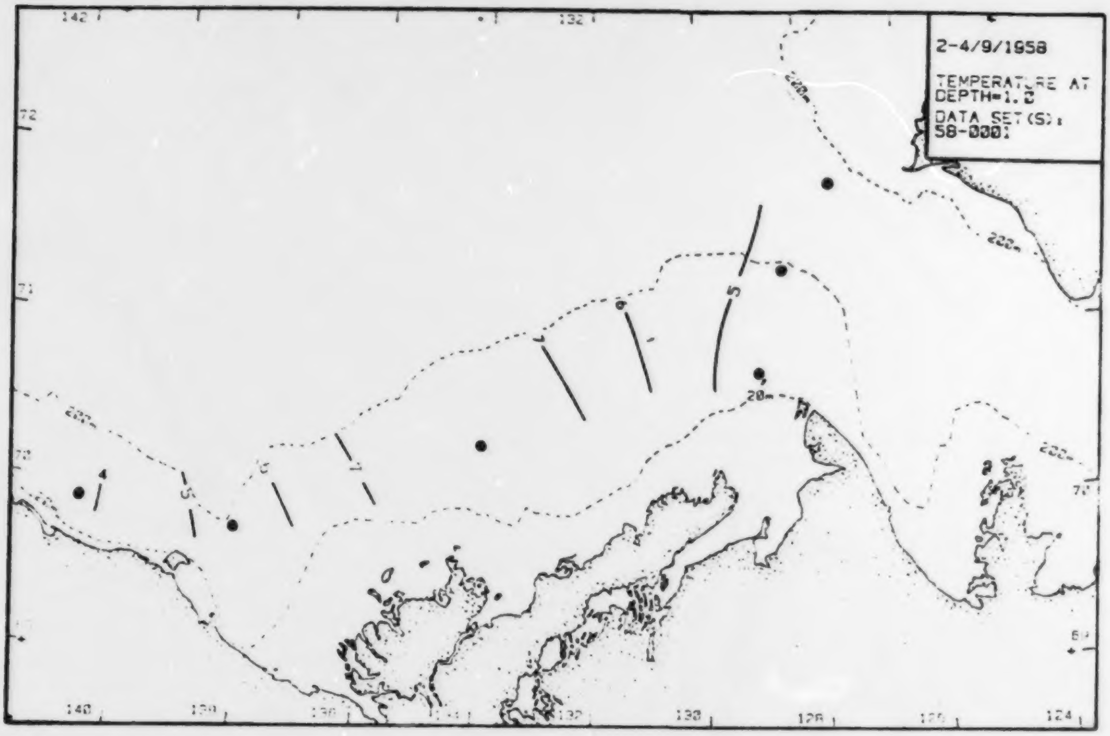
136
134
132
130
128
126
124


B: 14-18/8/1957
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
57-00028
142
132
72
71
70
69
70
69
140
138
136
134
132
130
128
126
124
200m
200m
200m
200m
20m
20m
-1.0
-1.4
-1.2


2-4/9/1958
TEMPERATURE AT DEPTH=1.2
DATA SET(S): 58-0001
142
132
72
71
70
69
140
138
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132
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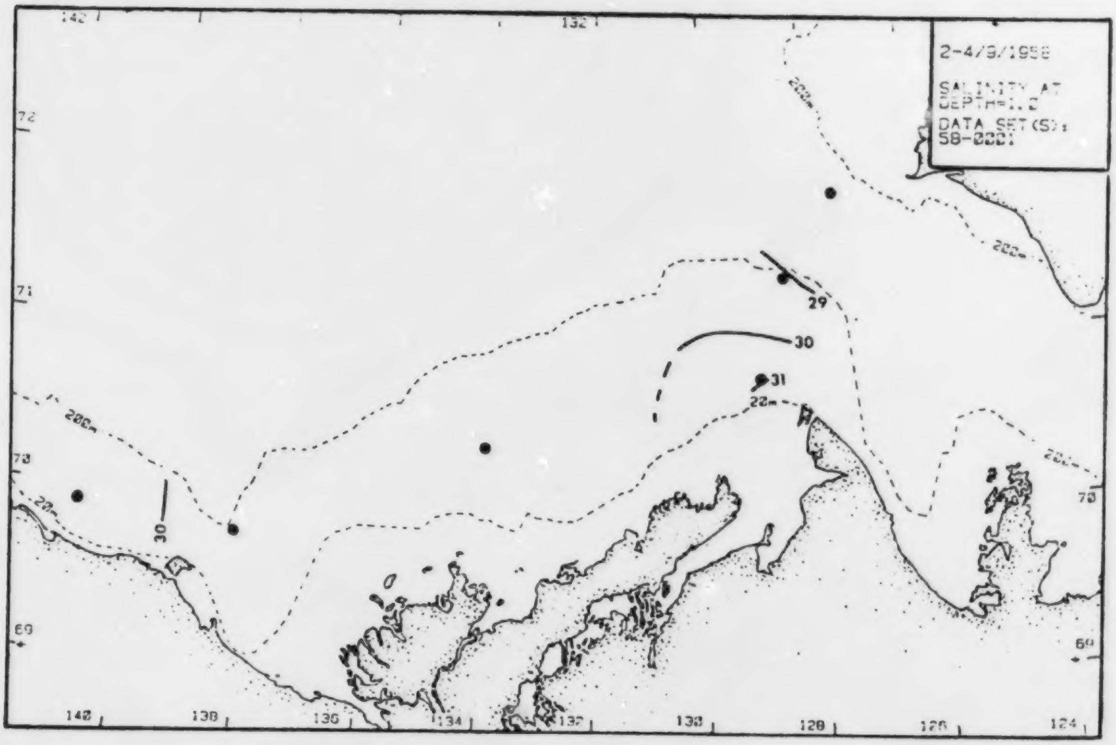
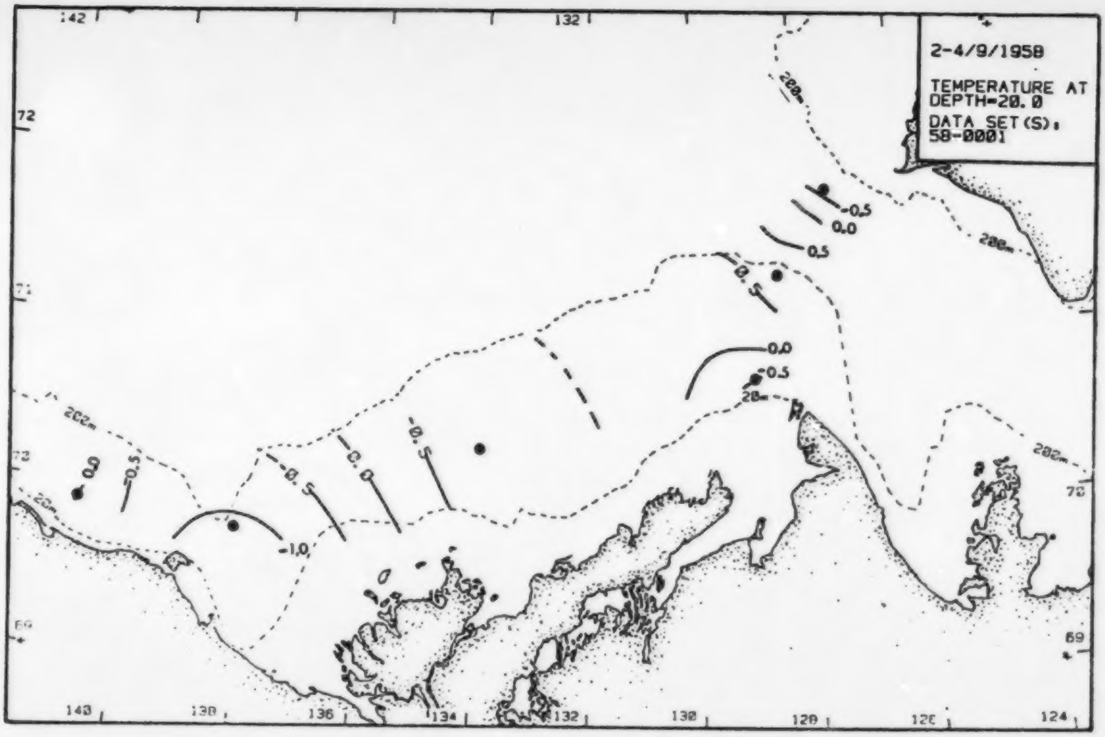
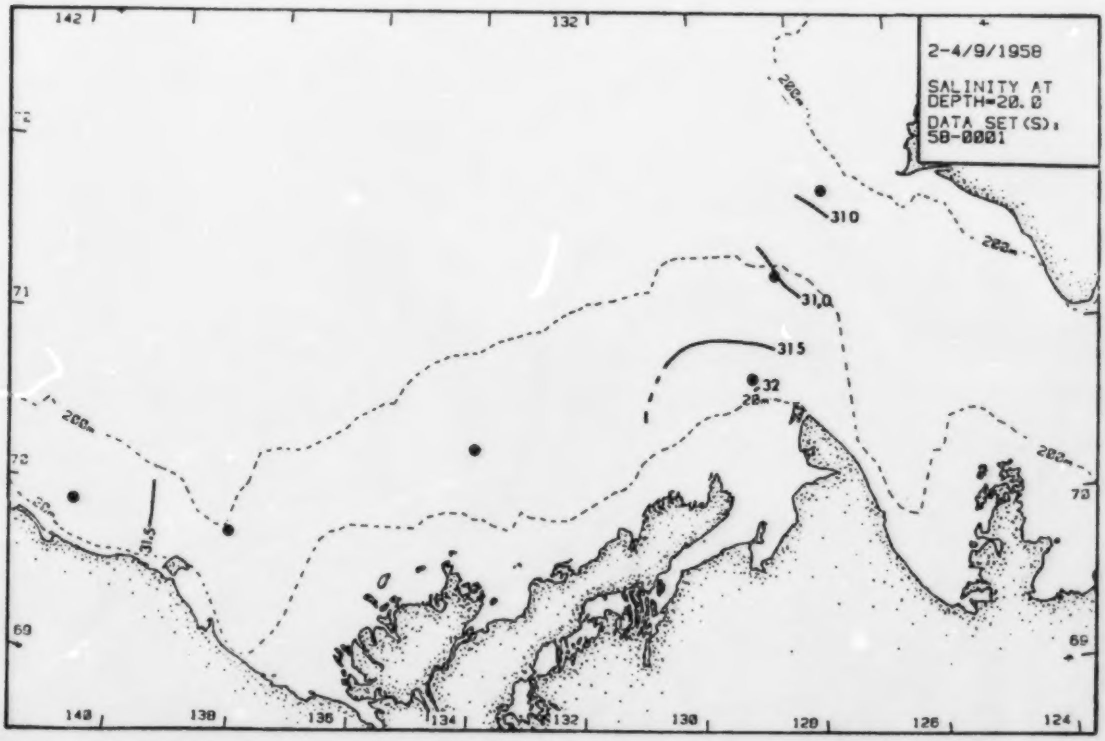
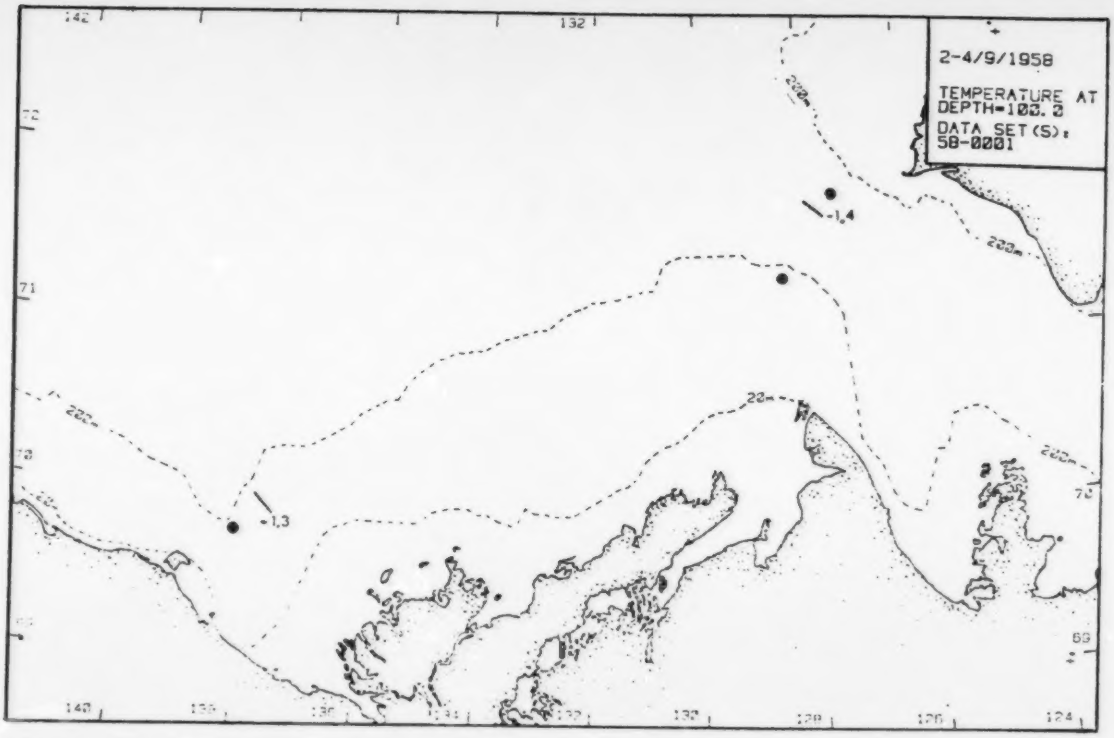
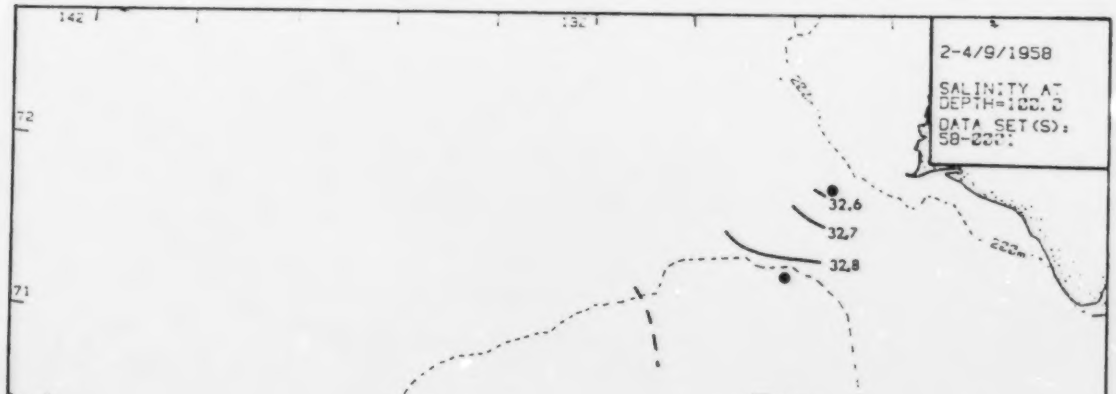
200m
20m
4
5
6
7
5
6
7

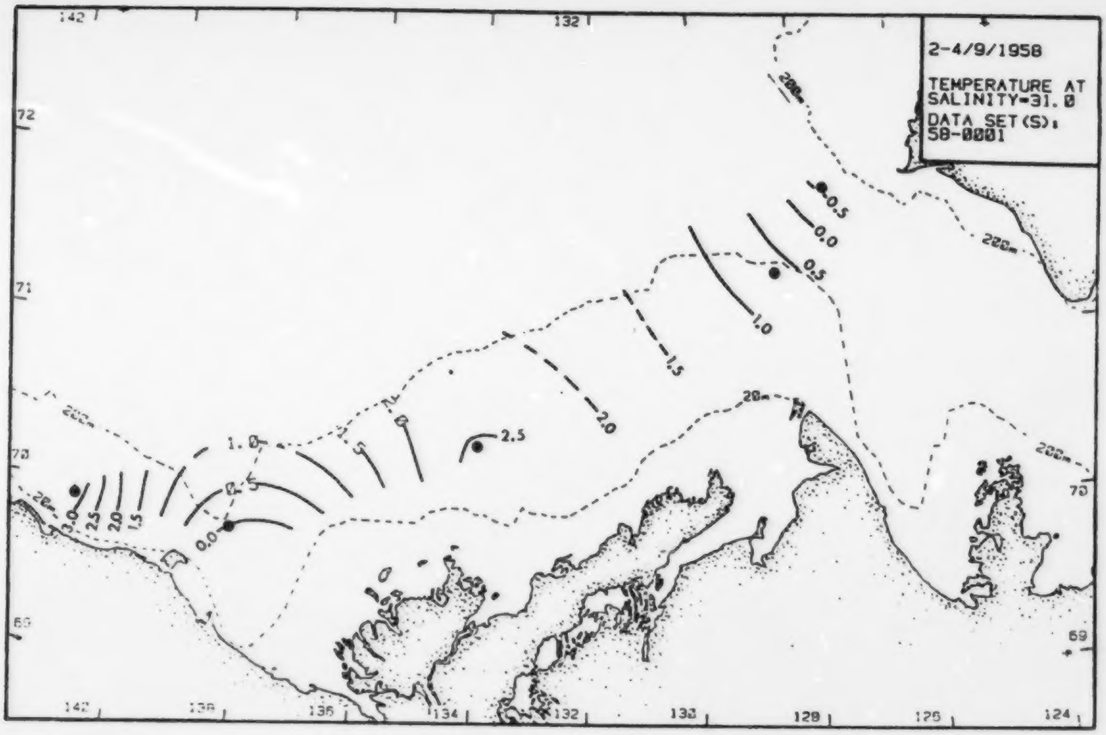

2-4/9/1958
SALINITY AT DEPTH=1.2
DATA SET(S): 58-0001
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
29
30
31
30

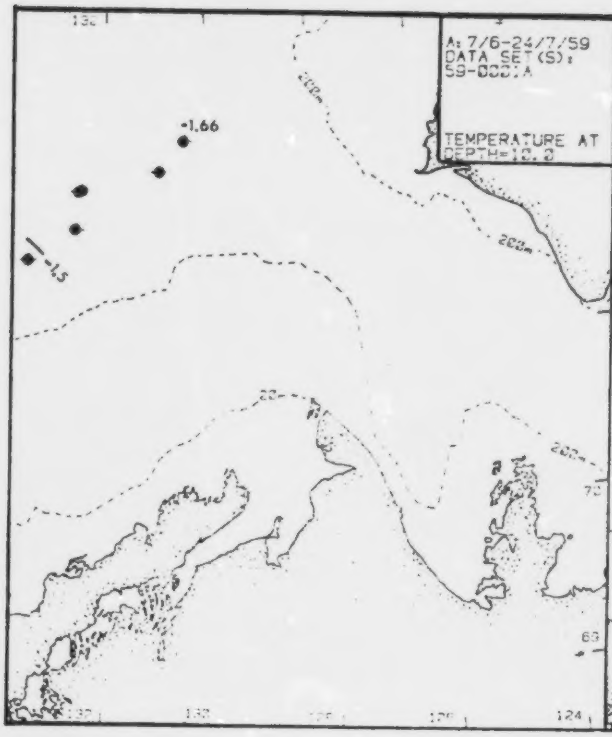

2-4/9/1958
TEMPERATURE AT DEPTH=20.0
DATA SET(S): 58-0001
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
-0.5
0.0
0.5
-1.0

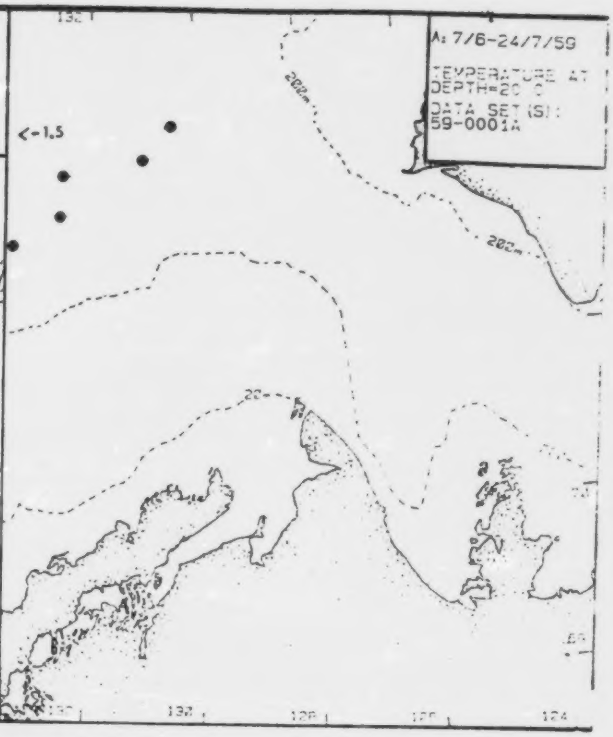

2-4/9/1958
SALINITY AT DEPTH=20.0
DATA SET(S): 58-0001
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
310
31.0
315
32
31.5

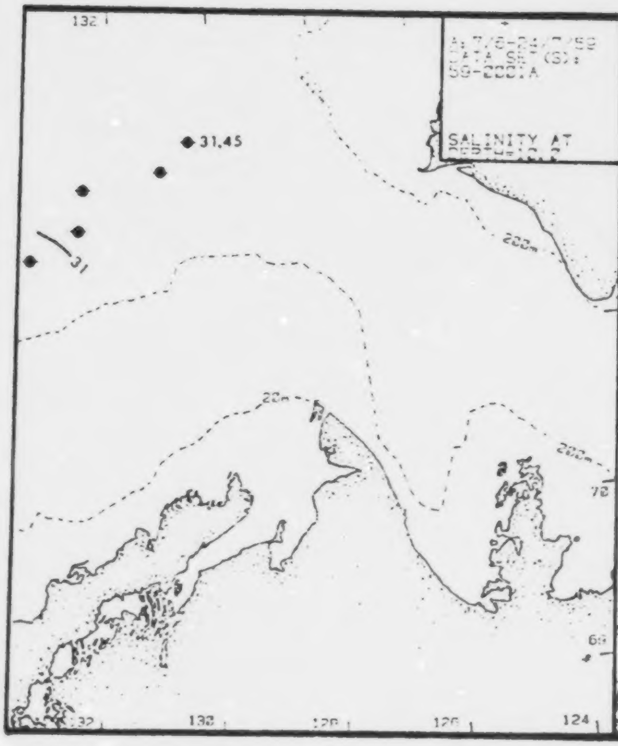

2-4/9/1958
TEMPERATURE AT DEPTH=100.0
DATA SET(S): 58-0001
142
132
72
71
70
69
200m
20m
-1.4
-1.3
140
138
136
134
132
130
128
126
124

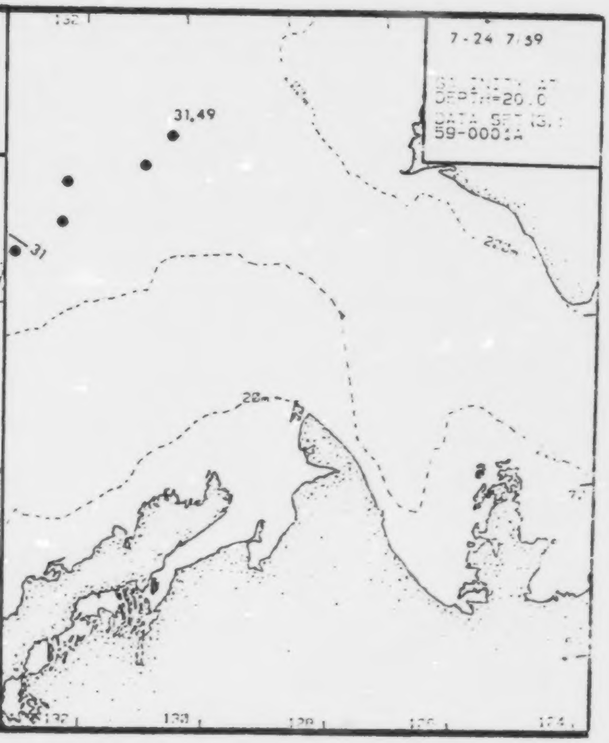

2-4/9/1958
SALINITY AT DEPTH=100.0
DATA SET(S): 58-0001
142
132
72
71
70
69
200m
20m
32.6
32.7
32.8
32.71
140
138
136
134
132
130
128
126
124

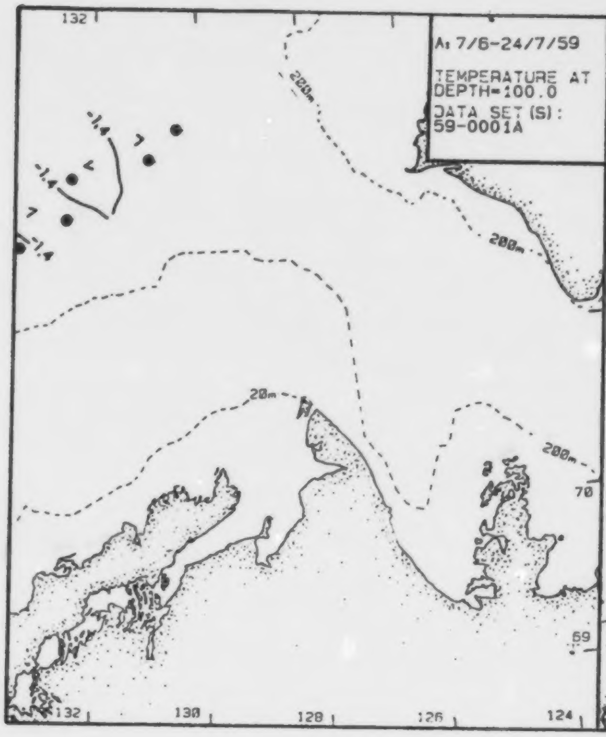

2-4/9/1958
TEMPERATURE AT SALINITY=31.0
DATA SET(S):
58-0001
142
132
142
138
136
134
132
130
128
126
124
72
71
70
69
70
69
200m
200m
200m
20m
20m
0.5
0.0
0.5
1.0
1.5
2.0
2.5
2.0
1.5
1.0
0.5
0.0
3.0
2.5
2.0
1.5

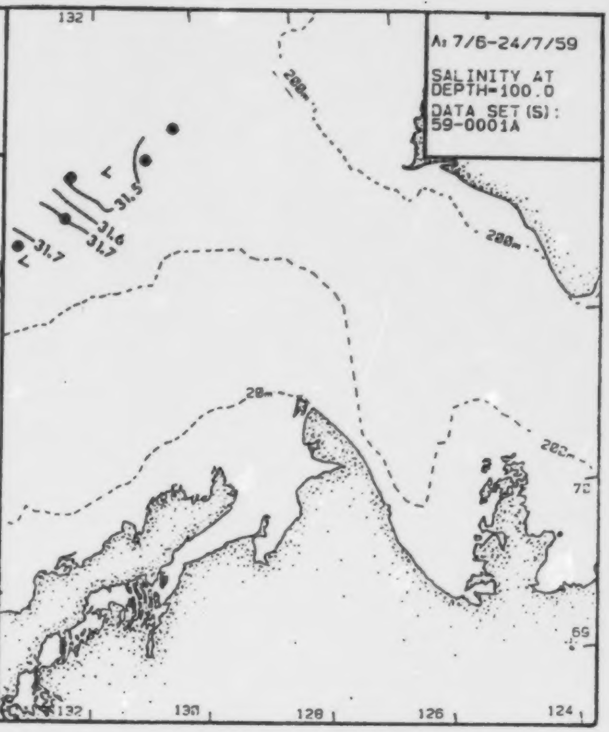

A: 7/6-24/7/59
DATA SET(S):
59-0001A
TEMPERATURE AT
DEPTH=10.0
-1.66
-1.5
200m
132
130
128
126
124
70
68

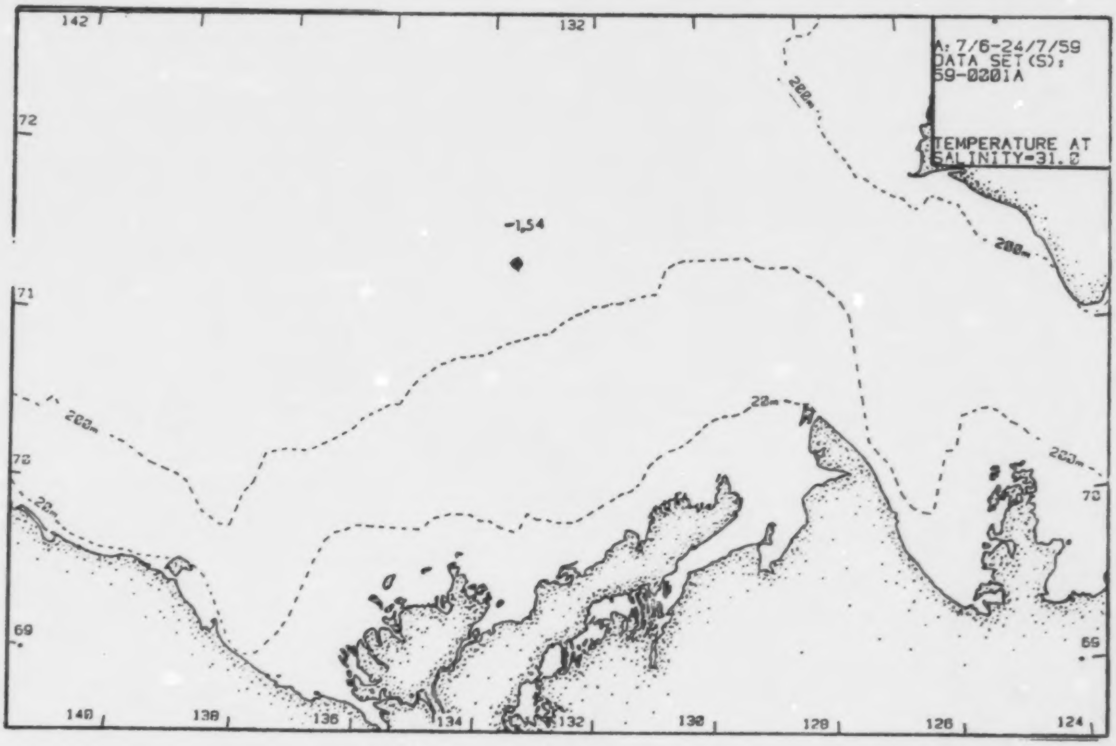

A: 7/6-24/7/59
TEMPERATURE AT
DEPTH=20.0
DATA SET(S):
59-0001A
<-1.5
200m
132
130
128
126
124

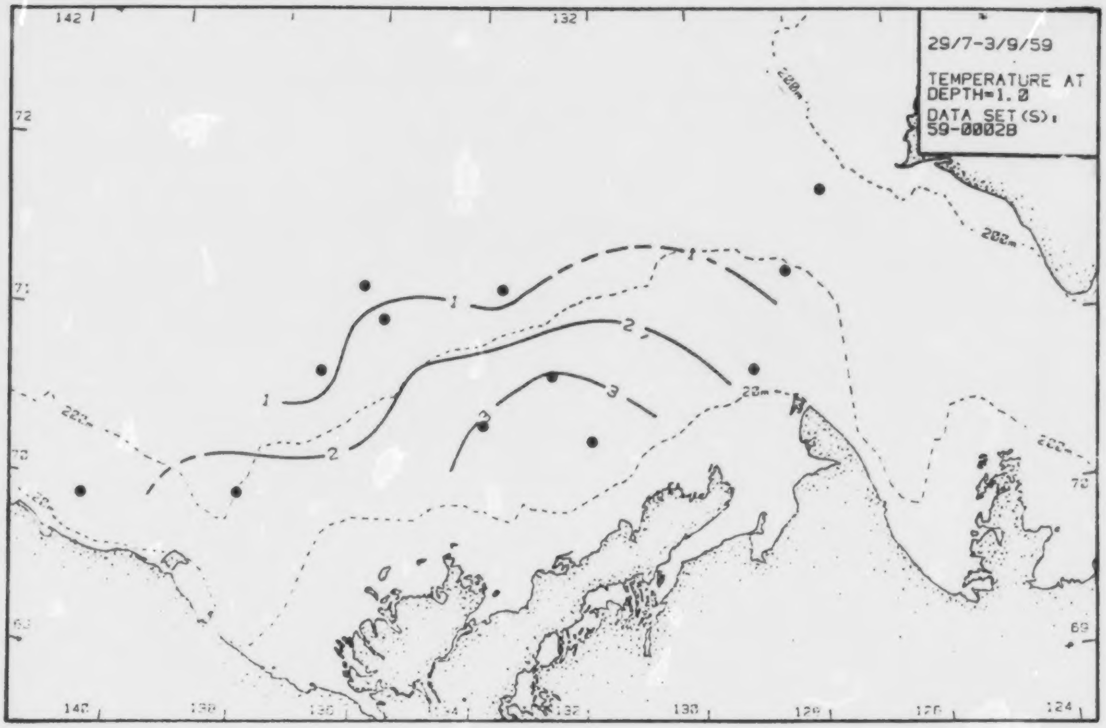

A: 7/6-24/7/59
DATA SET(S):
59-0001A
SALINITY AT
DEPTH=10.0
31.45
31
200m
132
130
128
126
124
70
68

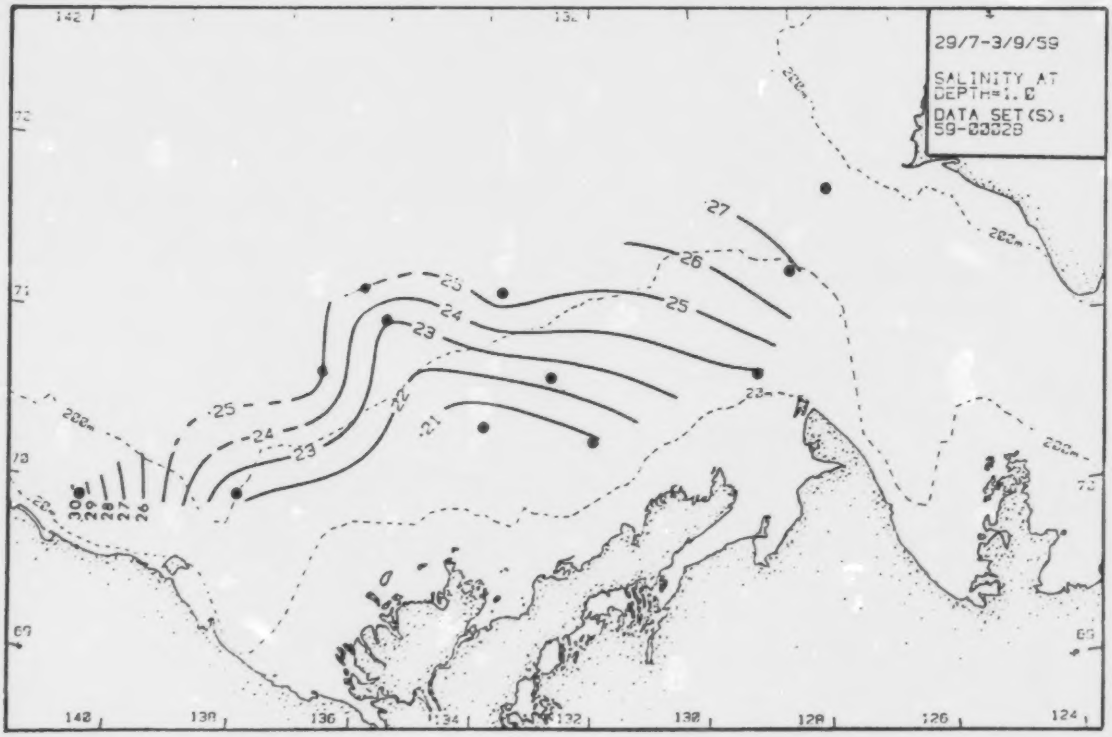

7-24 7/59
SALINITY AT
DEPTH=20.0
DATA SET(S):
59-0001A
31.49
31
200m
132
130
128
126
124

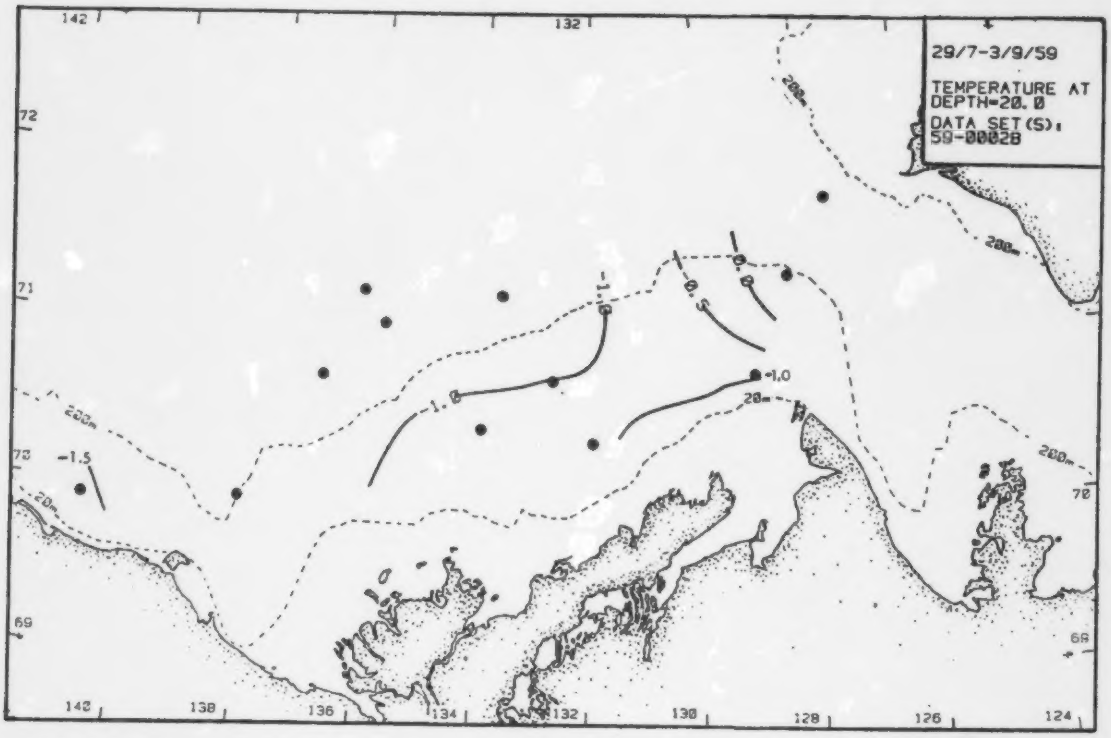

A: 7/6-24/7/59
TEMPERATURE AT DEPTH=100.0
DATA SET(S): 59-0001A
132
-1.4
-1.4
-1.4
-1.4
200m
200m
200m
20m
70
69
132
130
128
126
124


A: 7/6-24/7/59
SALINITY AT DEPTH=100.0
DATA SET(S): 59-0001A
132
31.5
31.6
31.7
31.7
200m
200m
200m
20m
70
69
132
130
128
126
124


A: 7/6-24/7/59
DATA SET(S): 59-0001A
TEMPERATURE AT SALINITY=31.0
142
132
72
71
70
69
-1.54
200m
200m
200m
200m
20m
20m
140
138
136
134
132
130
128
126
124


29/7-3/9/59
TEMPERATURE AT DEPTH=1.0
DATA SET(S): 59-00028
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
1
2
3


29/7-3/9/59
SALINITY AT DEPTH=1.0
DATA SET(S): 59-00028
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
21
22
23
24
25
26
27
28
29
30

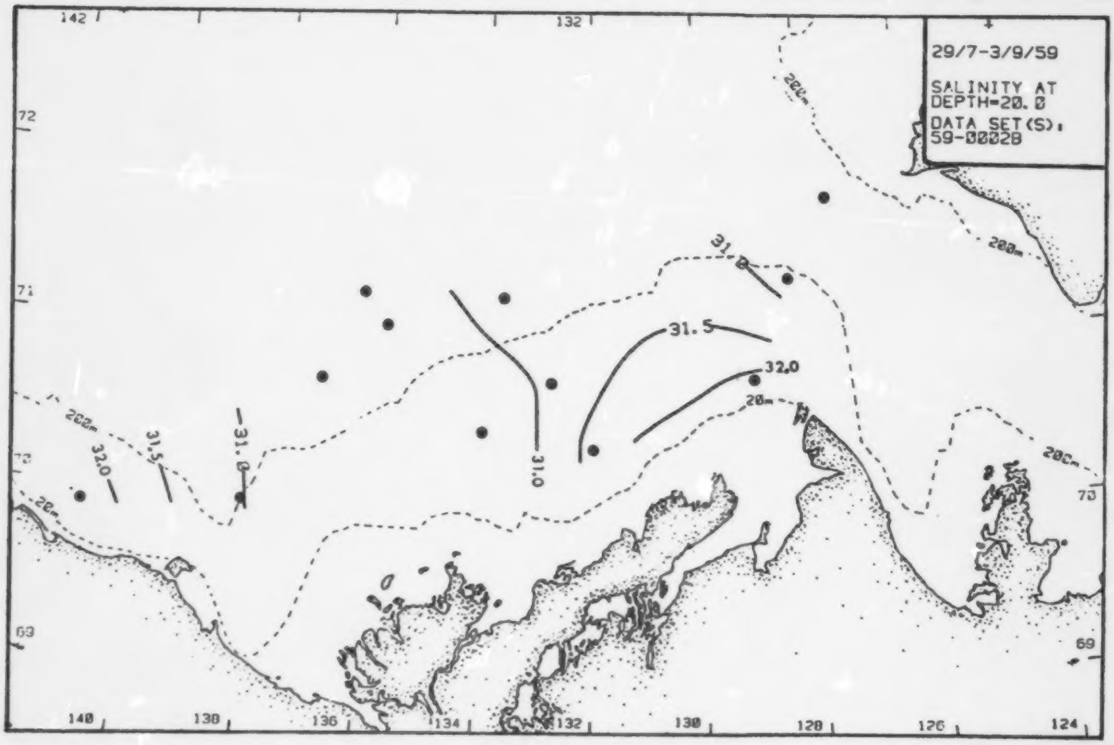


29/7-3/9/59

TEMPERATURE AT DEPTH=20.0

DATA SET(S): 59-00028

142
132
72
71
70
69
68
140
138
136
134
132
130
128
126
124
200m
20m
-1.5
-1.0
-0.5
0.0
-1.0

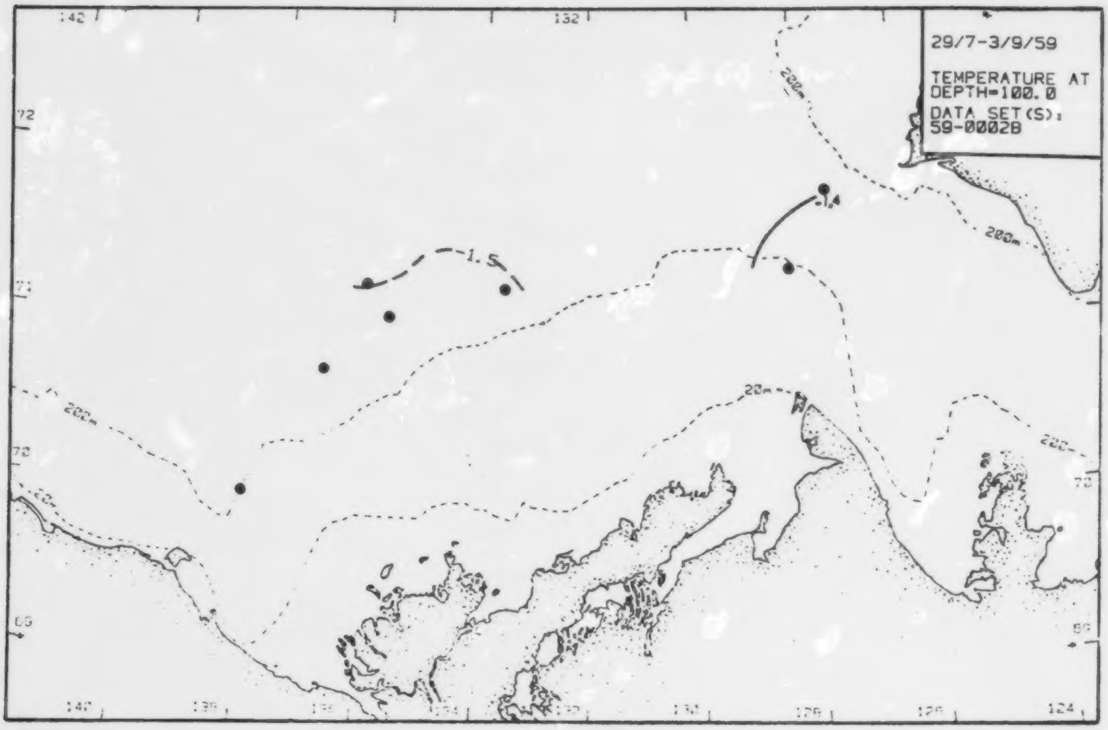


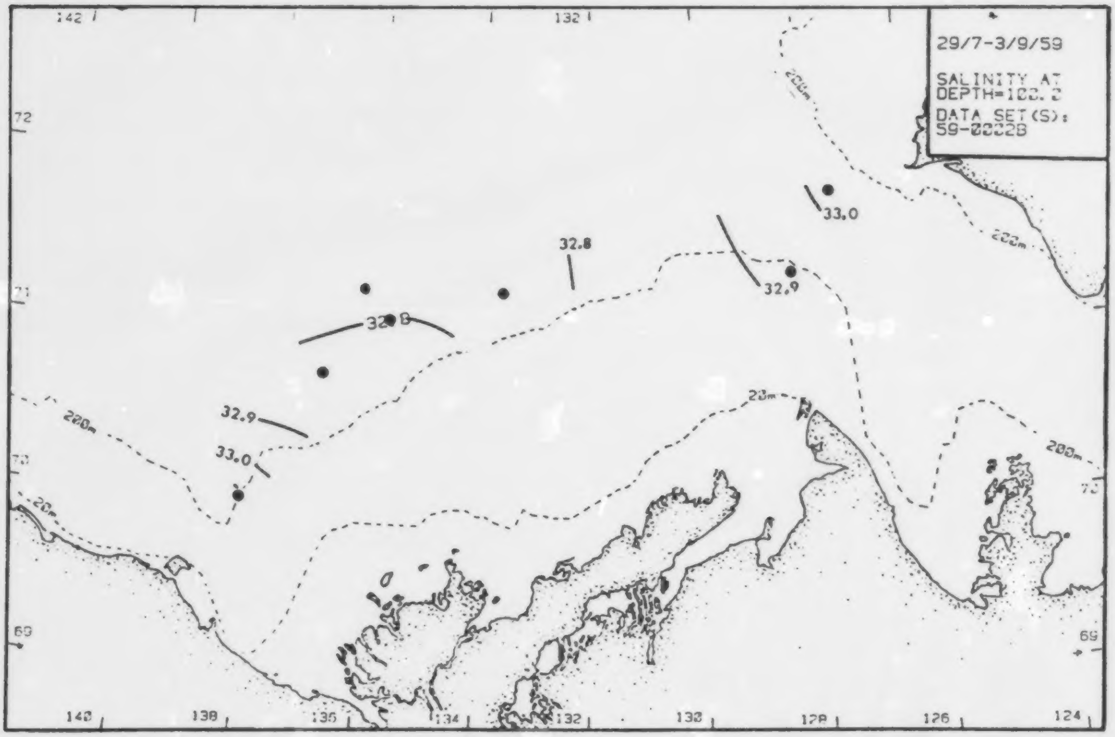
29/7-3/9/59

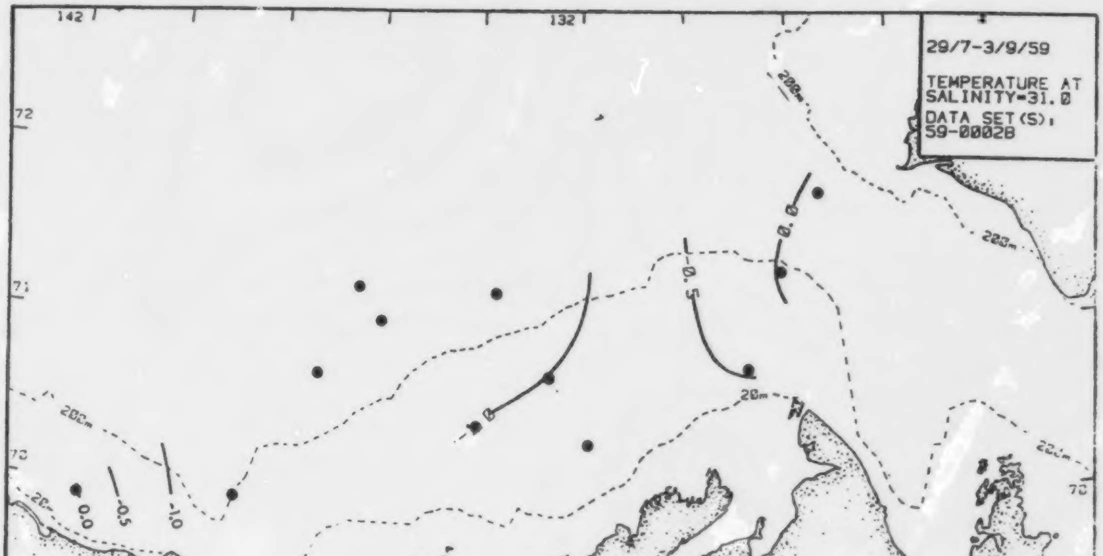
SALINITY AT DEPTH=20.0

DATA SET(S): 59-00028

142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
32.0
31.5
31.0
31.0
31.0
31.5
32.0


29/7-3/9/59
TEMPERATURE AT DEPTH=100.0
DATA SET(S): 59-0002B
-1.5
200m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124


29/7-3/9/59
SALINITY AT DEPTH=100.0
DATA SET(S): 59-0002B
33.0
32.8
32.9
32.8
32.9
33.0
200m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124

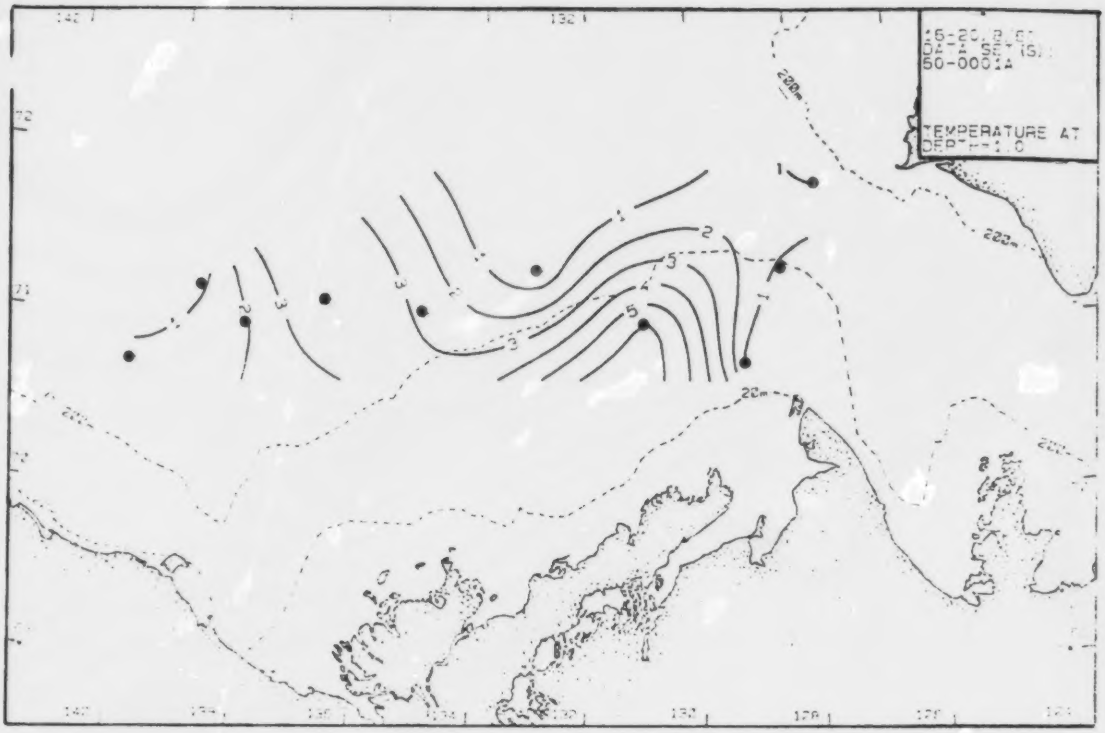


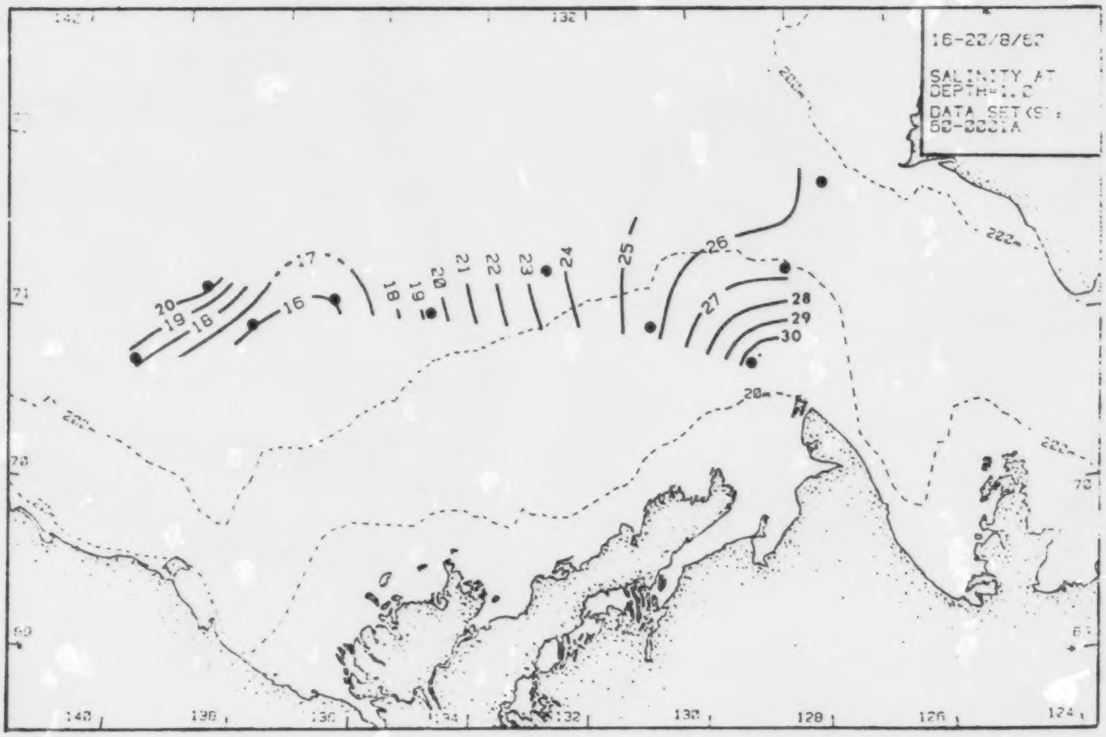
29/7-3/9/59

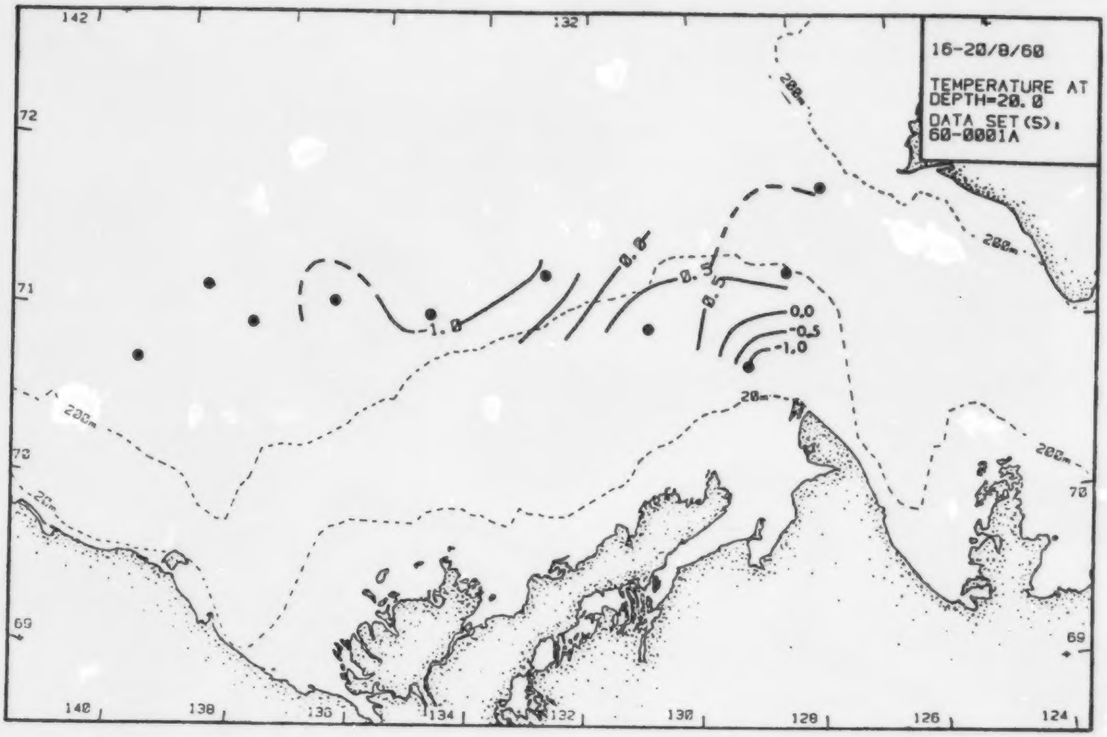
TEMPERATURE AT SALINITY=31.0

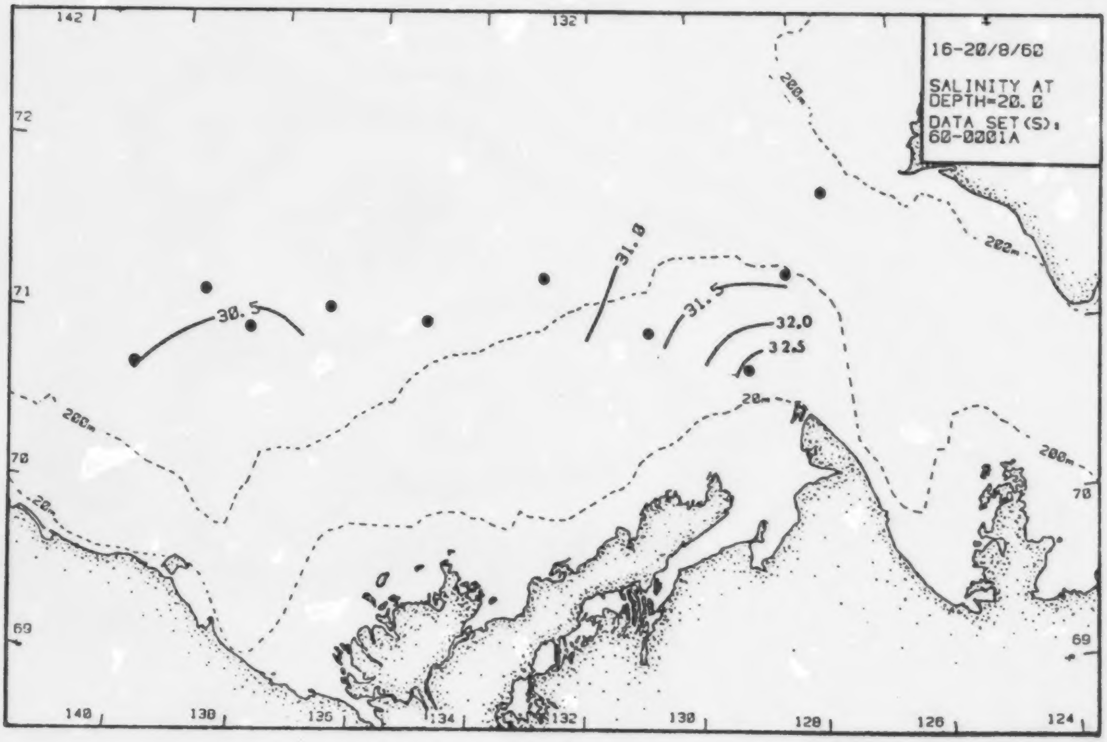
DATA SET(S); 59-00028

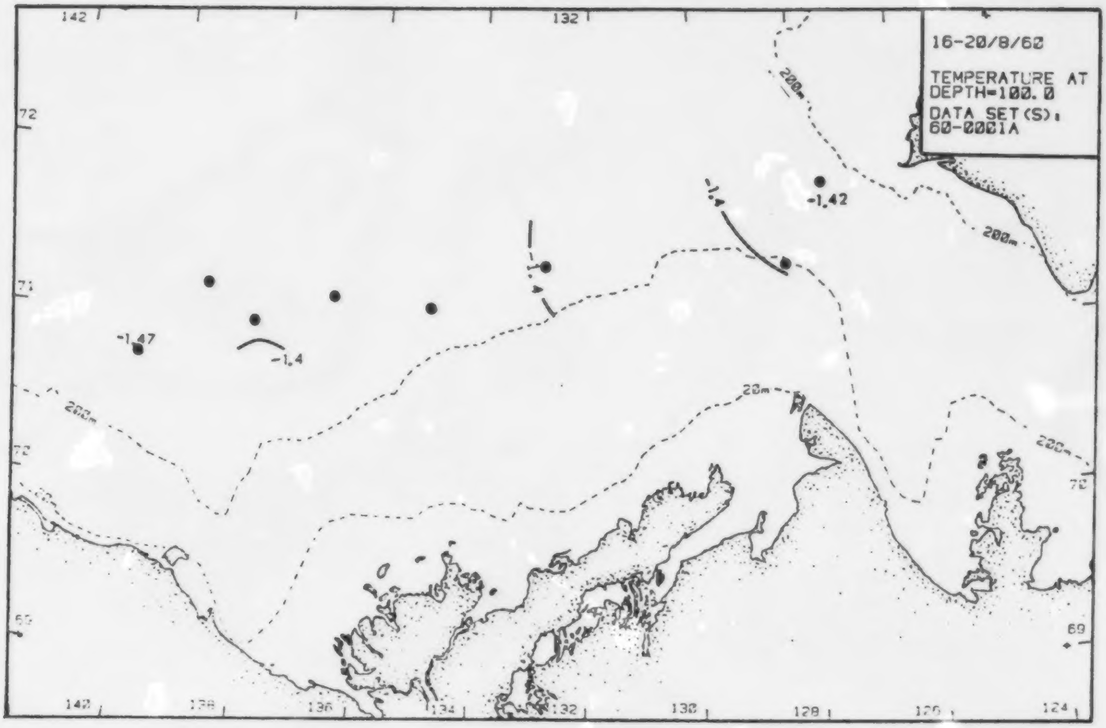
142
132
72
71
70
69
200m
20m
0.0
-0.5
-1.0
-0.5
0.0
-1.0
140
138
136
134
132
130
128
126
124

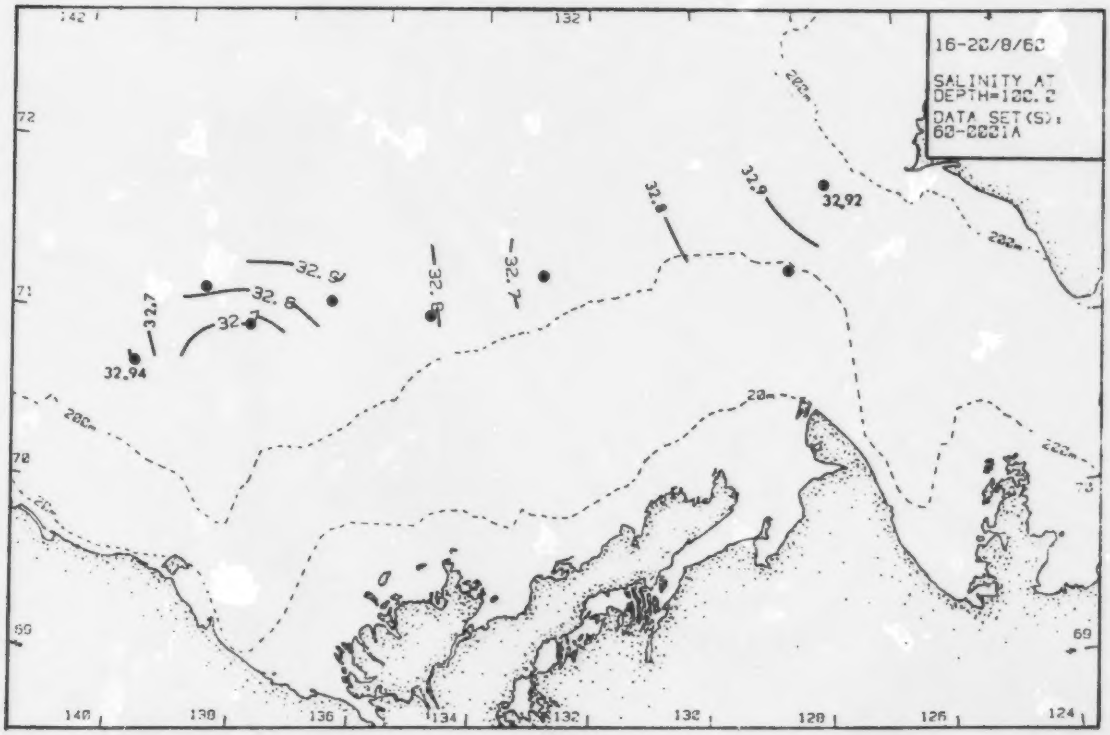

16-22/8/50
DATA SET(S):
50-0001A
TEMPERATURE AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
1
2
3
5
220m
20m
222m

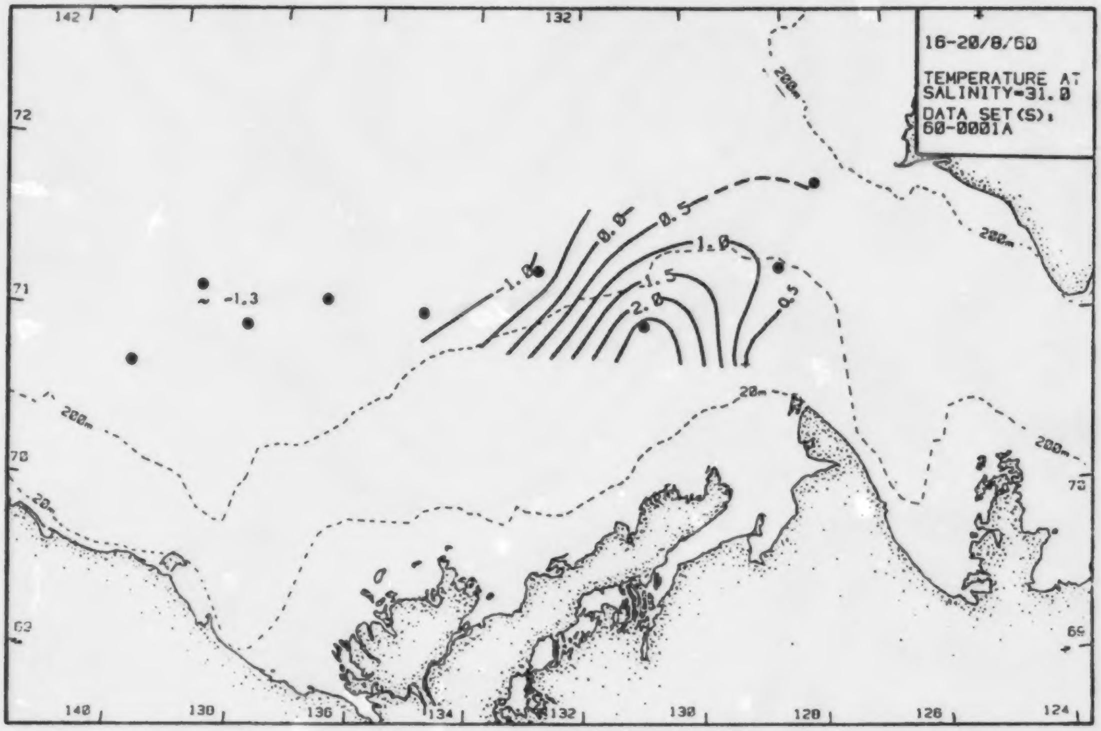

16-22/8/50
SALINITY AT
DEPTH=1.0
DATA SET(S):
50-0001A
142
132
71
70
69
140
138
136
134
132
130
128
126
124
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
220m
20m
222m

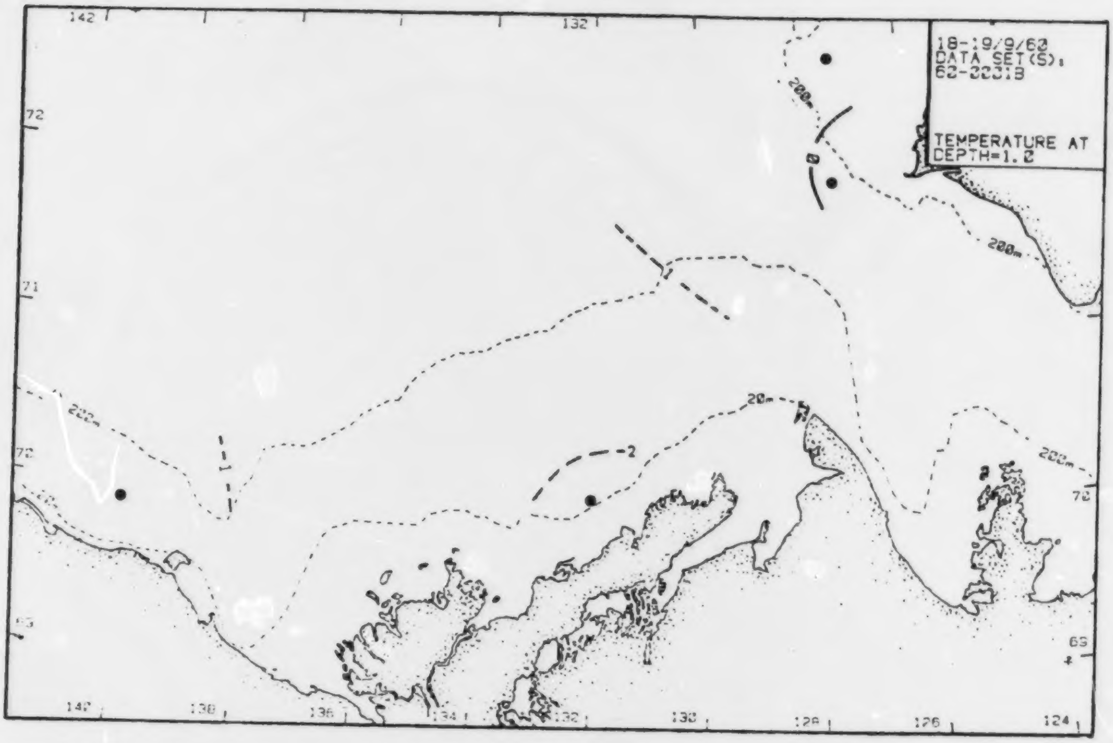

16-20/8/60
TEMPERATURE AT DEPTH=20.0
DATA SET(S): 60-0001A
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
0.0
0.5
0.0
-0.5
-1.0
-1.0

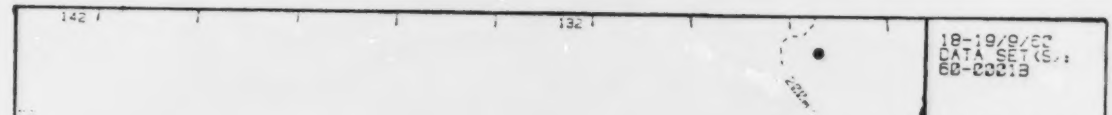

16-20/8/60
SALINITY AT DEPTH=20.0
DATA SET(S): 60-0001A
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
30.5
31.0
31.5
32.0
32.5


16-20/8/60
TEMPERATURE AT
DEPTH=100.0
DATA SET(S):
60-0001A
-1.42
-1.4
-1.4
-1.47
-1.4
200m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124

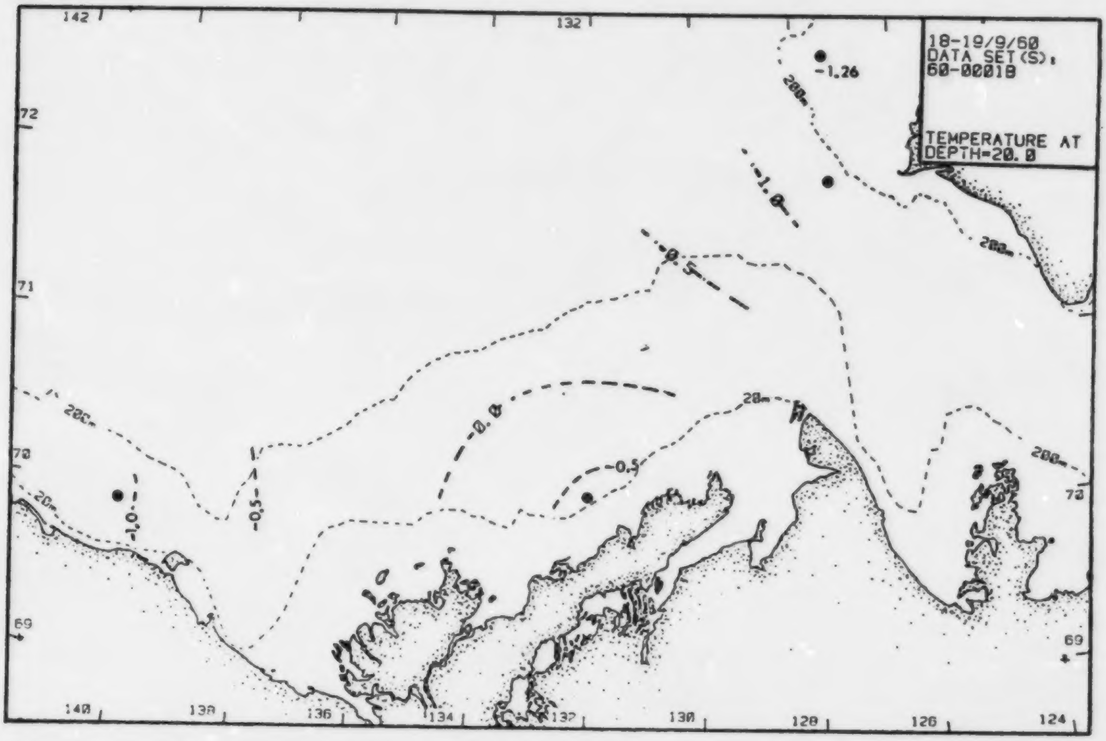

16-20/8/60
SALINITY AT
DEPTH=100.0
DATA SET(S):
60-0001A
32.92
32.9
32.8
32.7
32.8
32.9
32.8
32.7
32.7
32.94
200m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124


16-20/8/60
TEMPERATURE AT SALINITY=31.0
DATA SET(S): 60-0001A
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
-1.3
-1.0
-0.0
0.5
1.0
1.5
2.0
0.5
200m
20m


18-19/9/60
DATA SET(S):
60-0001B
TEMPERATURE AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
0
-2


18-19/9/60
DATA SET(S):
60-0001B
SALINITY AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
71
70
69
200m
20m
24
25
26
27
28

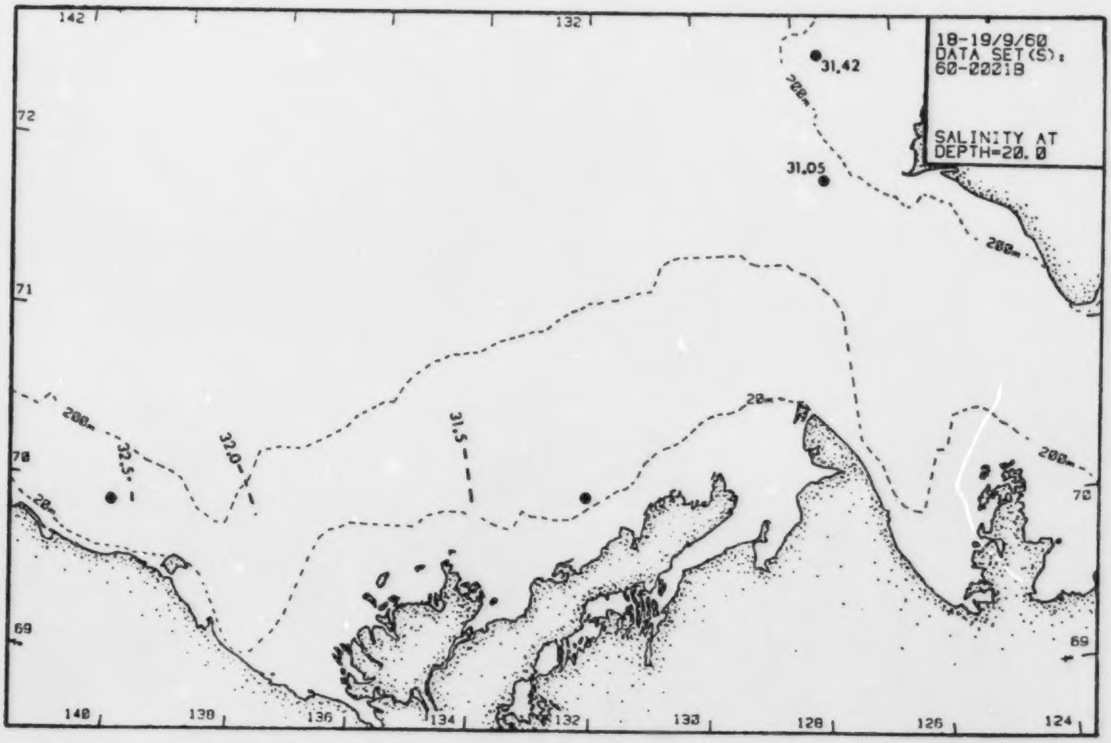
2 58



18-19/9/60
DATA SET(S):
60-0001B

TEMPERATURE AT
DEPTH=20.0

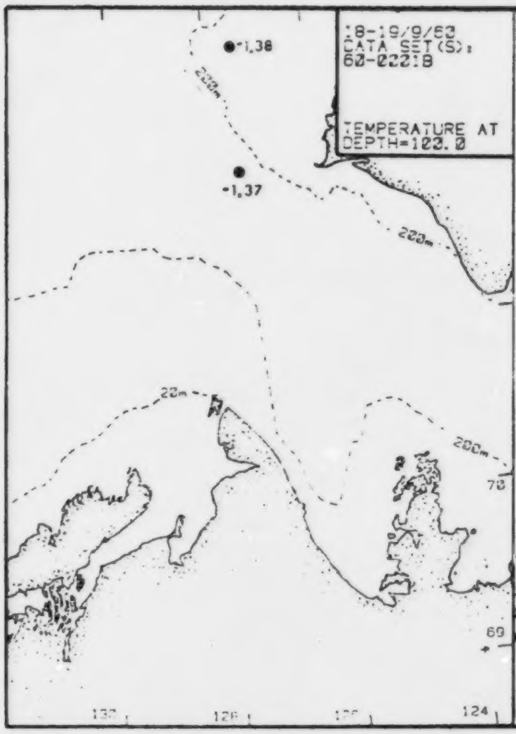
142
132
72
71
70
69
-1.26
-1.0
-0.5
0.0
-0.5
-0.5
-1.0
200m
20m
70
69
140
138
136
134
132
130
128
126
124

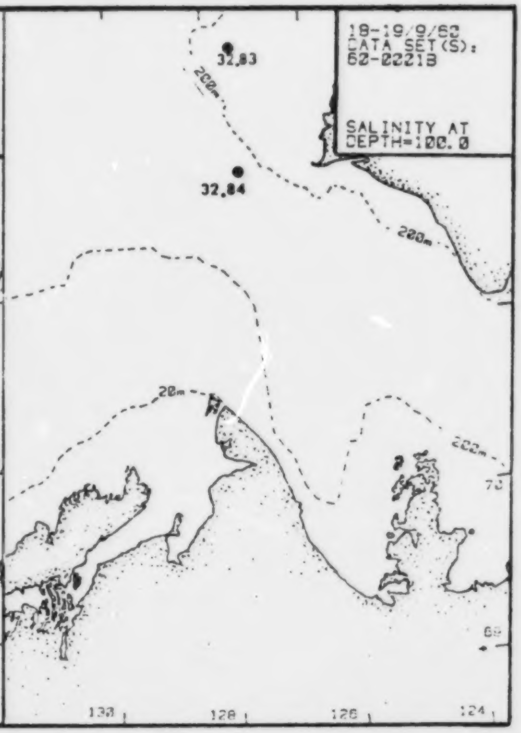


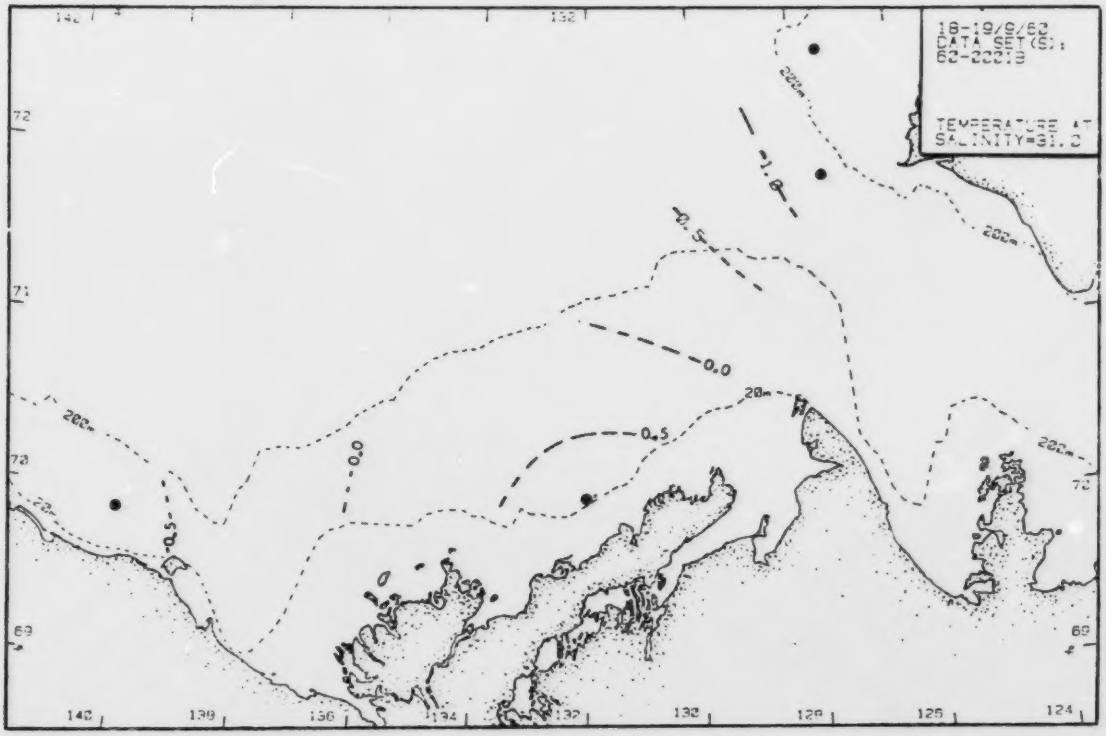
18-19/9/60
DATA SET(S):
60-0001B

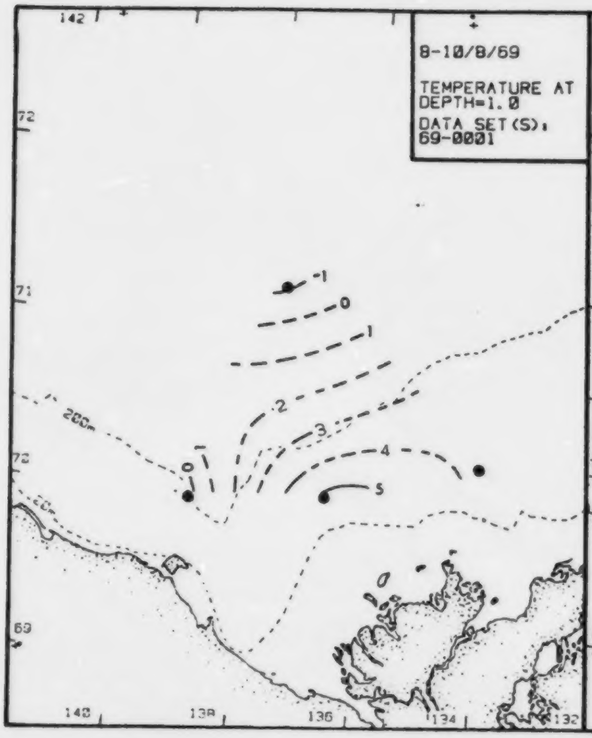
SALINITY AT
DEPTH=20.0

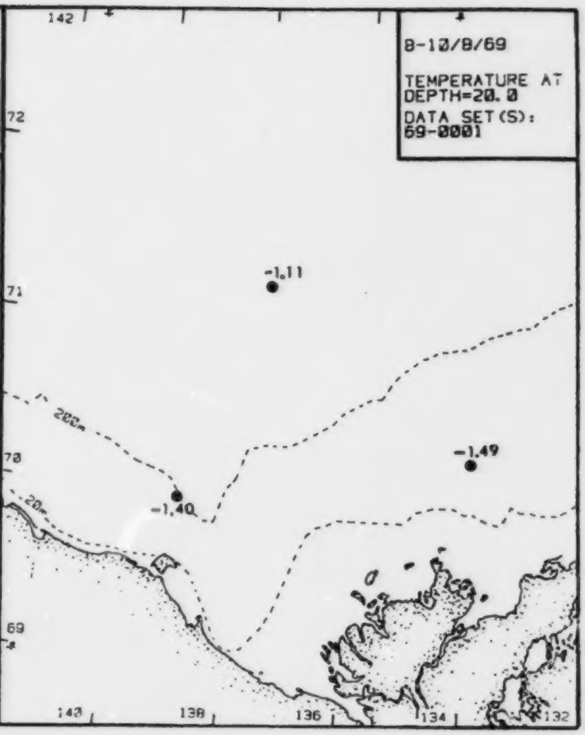
142
132
72
71
70
69
31.42
31.05
32.5
32.0
31.5
200m
20m
70
69
140
138
136
134
132
130
128
126
124

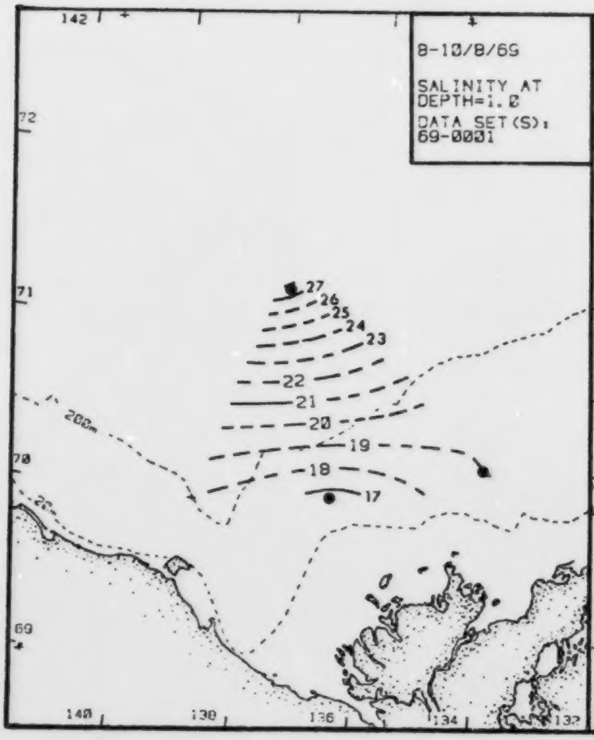

18-19/9/60
DATA SET(S):
60-2221B
TEMPERATURE AT
DEPTH=100.0
-1.38
-1.37
200m
200m
20m
200m
70
69
130
128
126
124

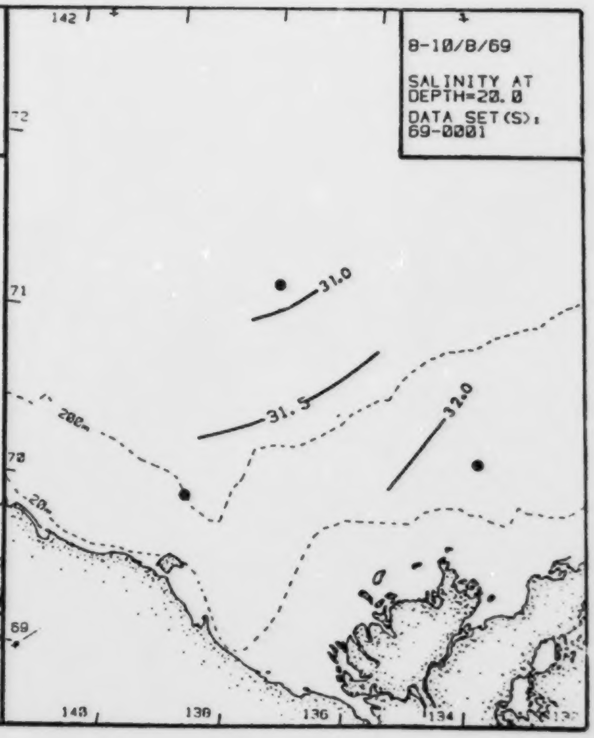

18-19/9/60
DATA SET(S):
60-2221B
SALINITY AT
DEPTH=100.0
32.83
32.84
200m
200m
20m
200m
70
69
130
128
126
124

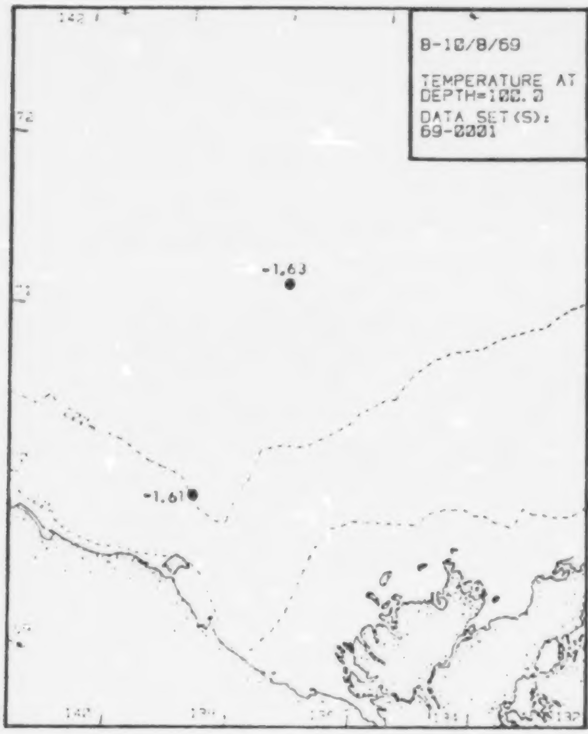

18-19/9/60
DATA SET(S):
60-2221B
TEMPERATURE AT
SALINITY=31.0
-1.0
-0.5
0.0
0.5
0.0
0.5
200m
200m
20m
200m
20m
140
132
72
71
70
69
70
69
140
138
136
134
132
130
128
126
124

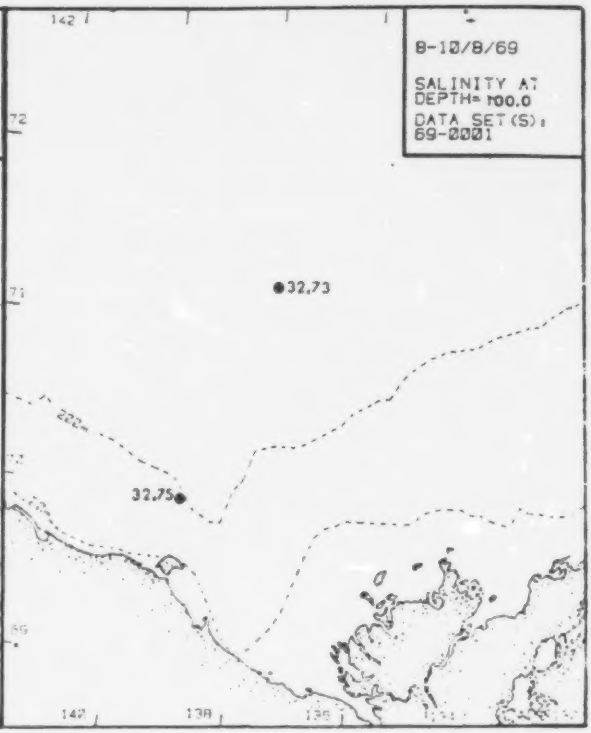

8-10/8/69
TEMPERATURE AT DEPTH=1.0
DATA SET(S): 69-0001
142
72
71
70
69
140
138
136
134
132
200m
20m
-1
0
1
2
3
4
5
0

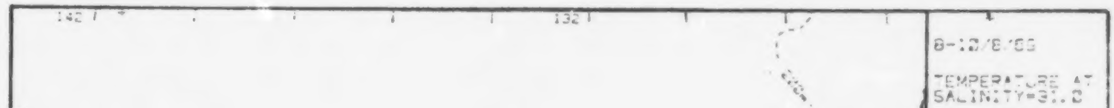

8-10/8/69
TEMPERATURE AT DEPTH=20.0
DATA SET(S): 69-0001
142
72
71
70
69
140
138
136
134
132
200m
20m
-1.11
-1.49
-1.40

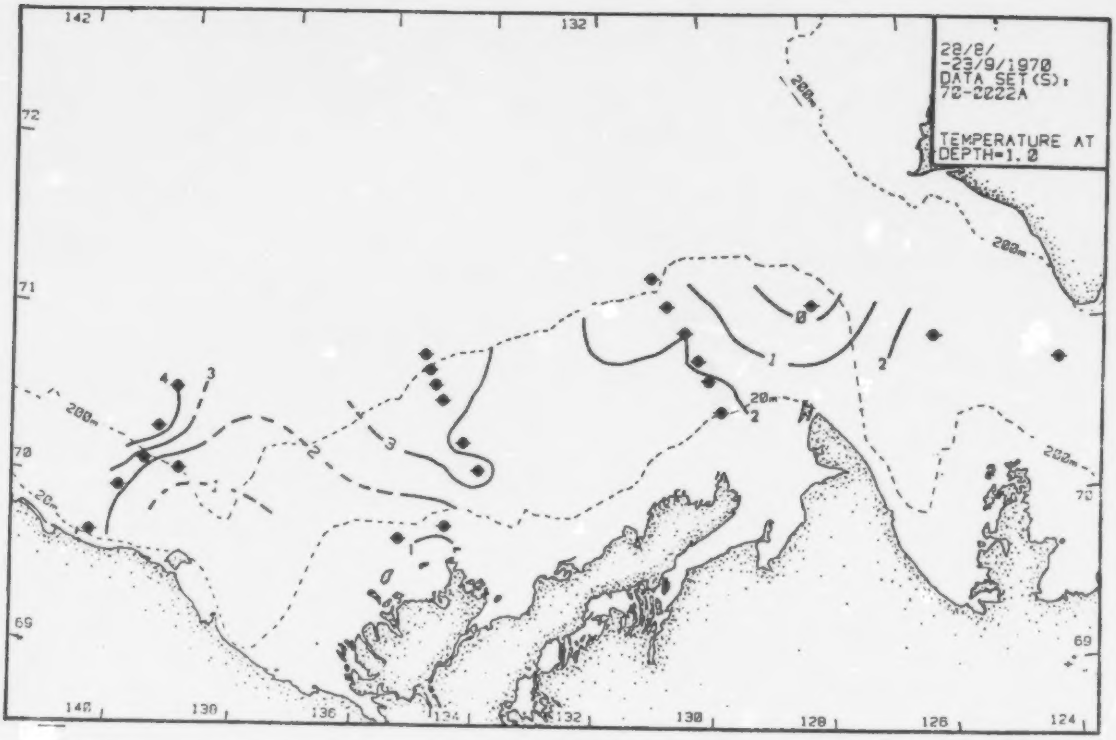

8-10/8/69
SALINITY AT DEPTH=1.0
DATA SET(S): 69-0001
142
72
71
70
69
140
138
136
134
132
200m
20m
27
26
25
24
23
22
21
20
19
18
17


8-10/8/69
SALINITY AT DEPTH=20.0
DATA SET(S): 69-0001
142
72
71
70
69
140
138
136
134
132
200m
20m
31.0
31.5
32.0

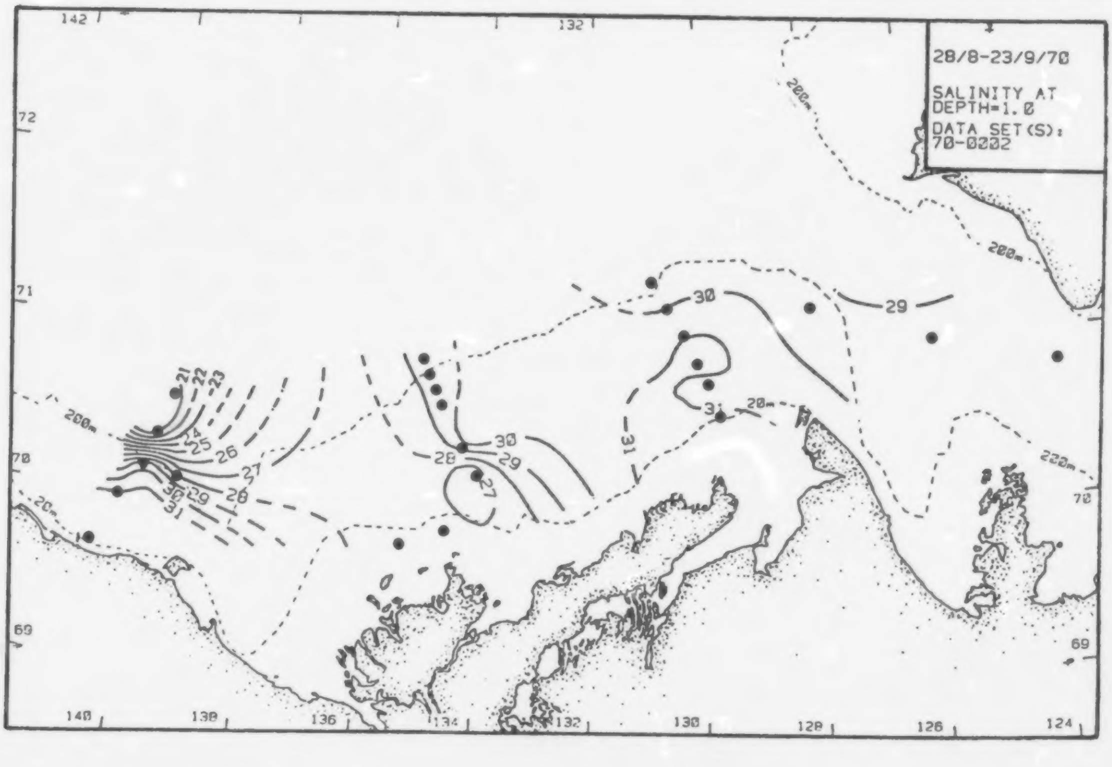

8-10/8/69
TEMPERATURE AT DEPTH=100.0
DATA SET(S): 69-0001
142
72
71
-1.63
-1.61
200m
140
138
136
134
132


8-10/8/69
SALINITY AT DEPTH=100.0
DATA SET(S): 69-0001
142
72
71
32.73
32.75
200m
140
138
136
134

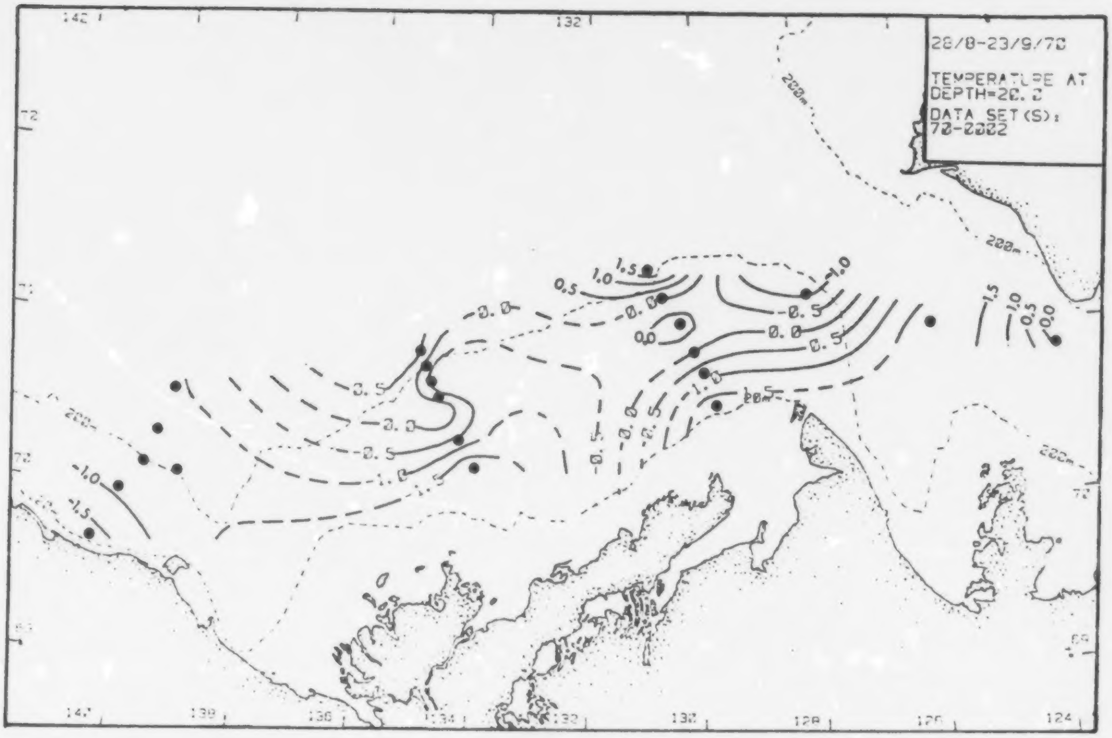

8-10/8/69
TEMPERATURE AT SALINITY=31.0
DATA SET(S): 69-0001
142
132
72
71
69
-1.07
-1.35
-0.92
-1.0
200m
20m
140
138
136
134
132
130
128
126
124


28/8/
-23/9/1970
DATA SET(S):
70-2022A

TEMPERATURE AT
DEPTH=1.0
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
0
1
2
3
4


28/8-23/9/70

SALINITY AT
DEPTH=1.0
DATA SET(S):
70-0202
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
21
22
23
24
25
26
27
28
29
30
31

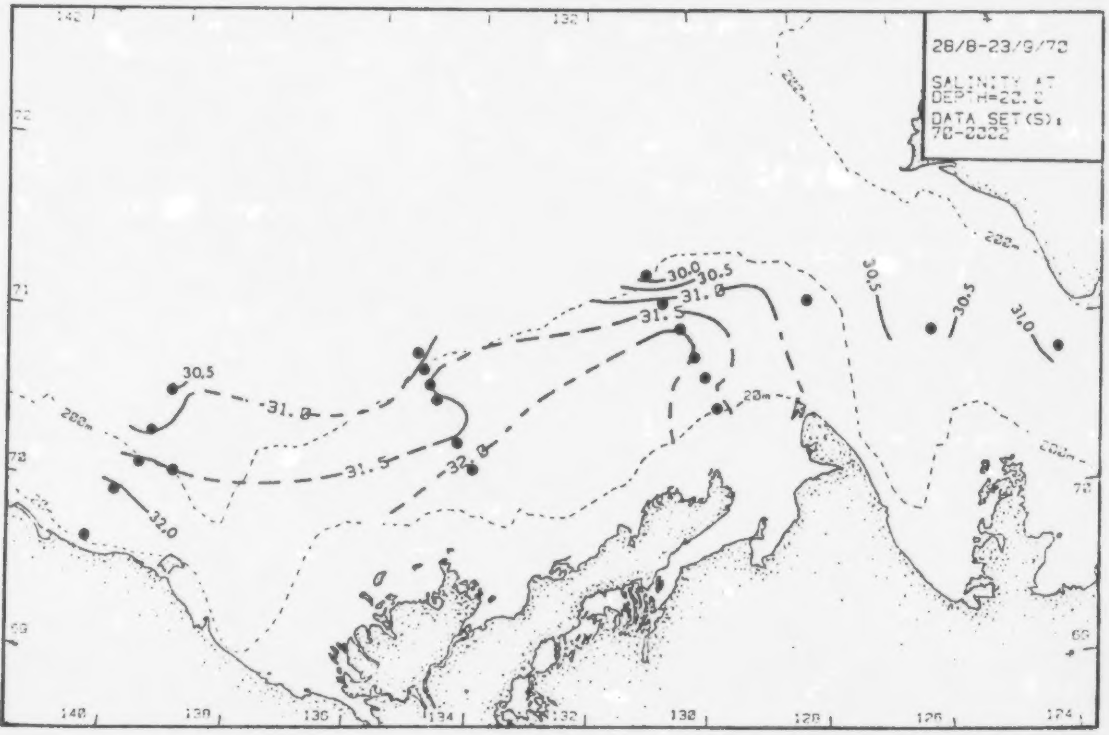


28/8-23/9/70

TEMPERATURE AT DEPTH=20.0

DATA SET(S): 70-2002

142
132
72
71
70
69
200m
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
140
138
136
134
132
130
128
126
124

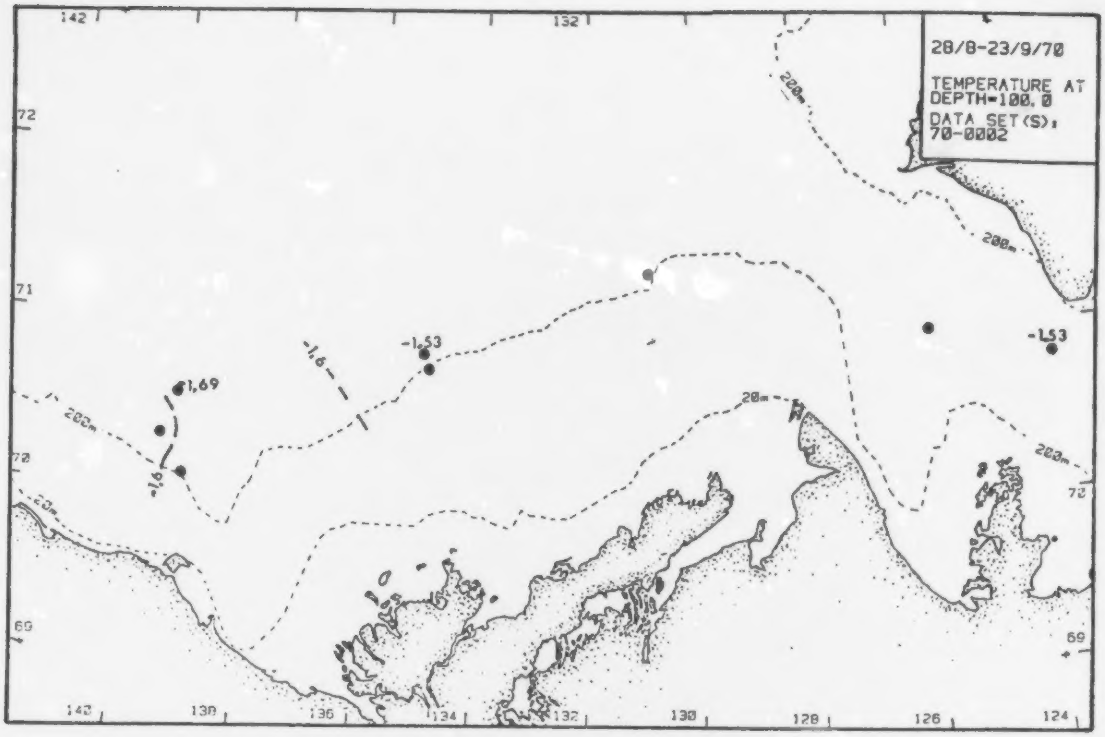


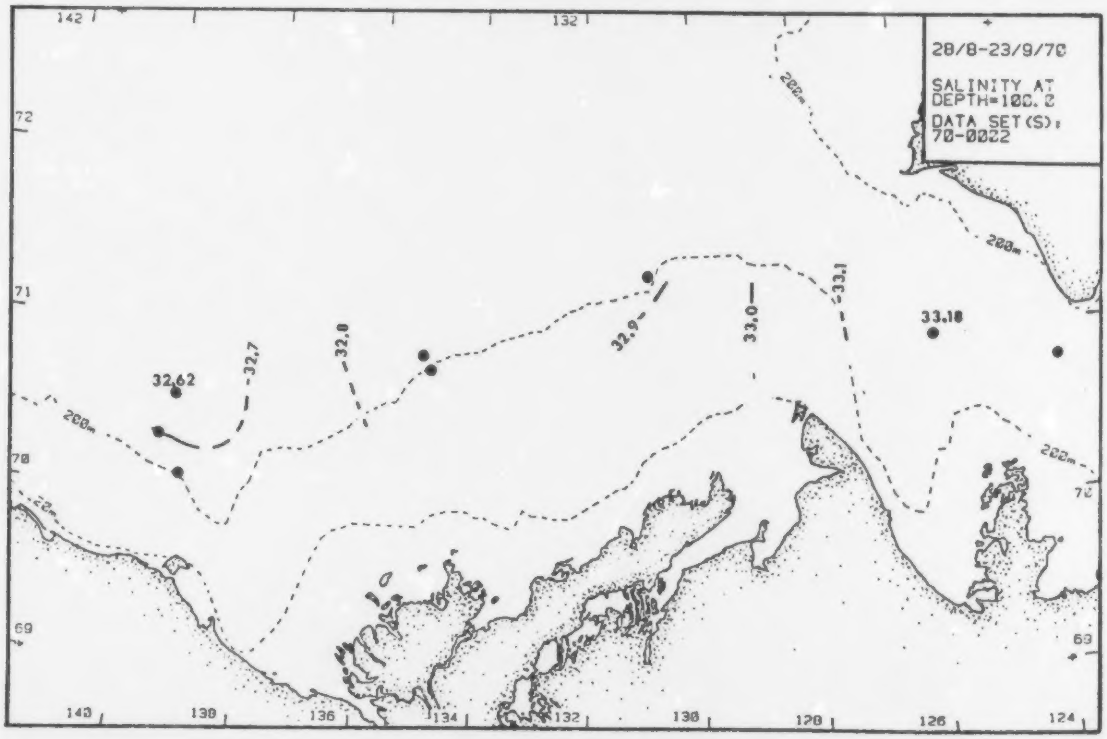
28/8-23/9/70

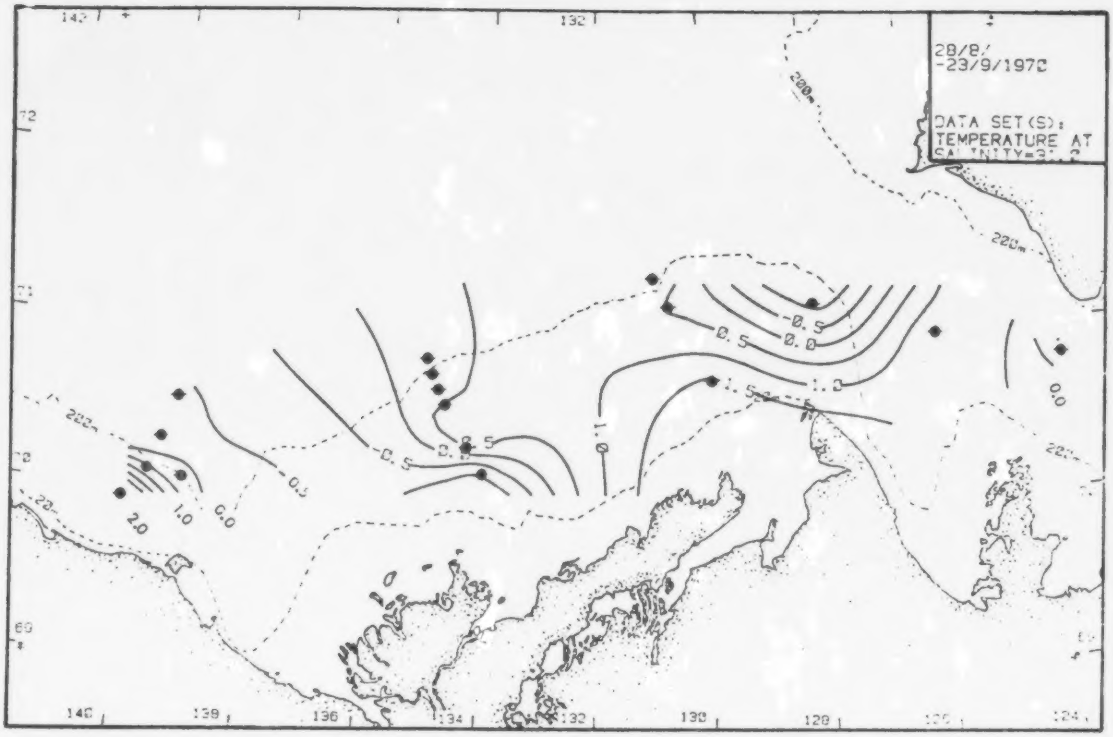
SALINITY AT DEPTH=20.0

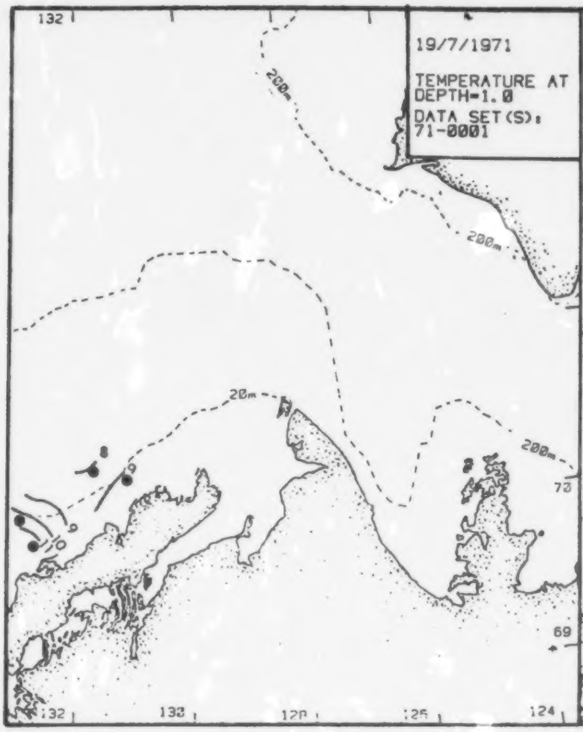
DATA SET(S): 70-2002

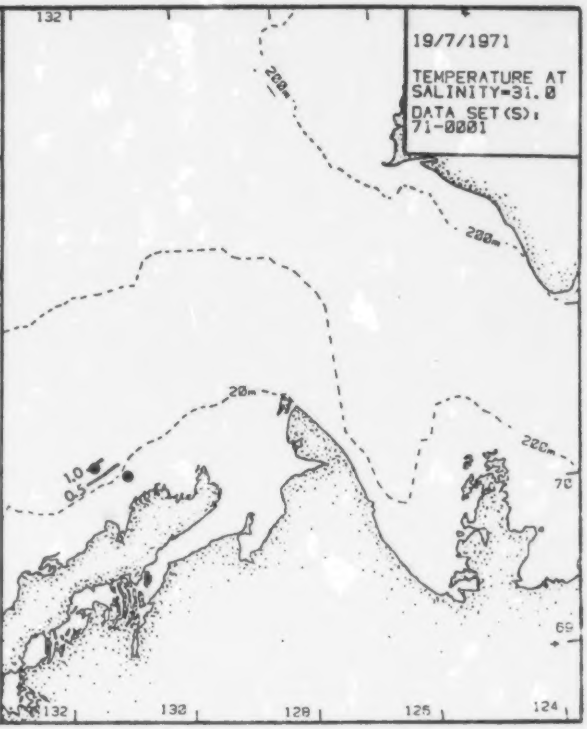
142
132
72
71
70
69
200m
20m
30.0
30.5
31.0
31.5
32.0
140
138
136
134
132
130
128
126
124

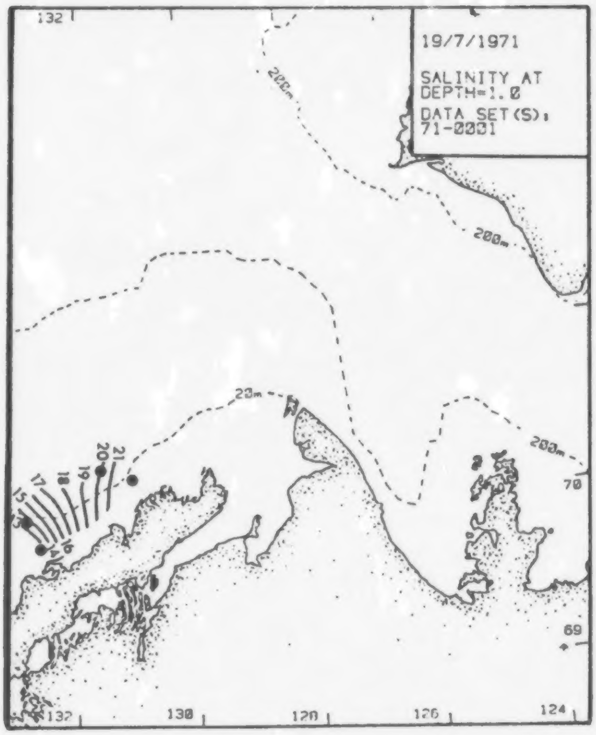

28/8-23/9/70
TEMPERATURE AT DEPTH=100.0
DATA SET(S): 70-0002
142
132
72
71
70
69
200m
20m
-1.53
-1.6
-1.69
-1.6
-1.53
140
138
136
134
132
130
128
126
124


28/8-23/9/70
SALINITY AT DEPTH=100.0
DATA SET(S): 70-0002
142
132
72
71
70
69
200m
20m
32.62
32.7
32.8
32.9
33.0
33.1
33.18
140
138
136
134
132
130
128
126
124

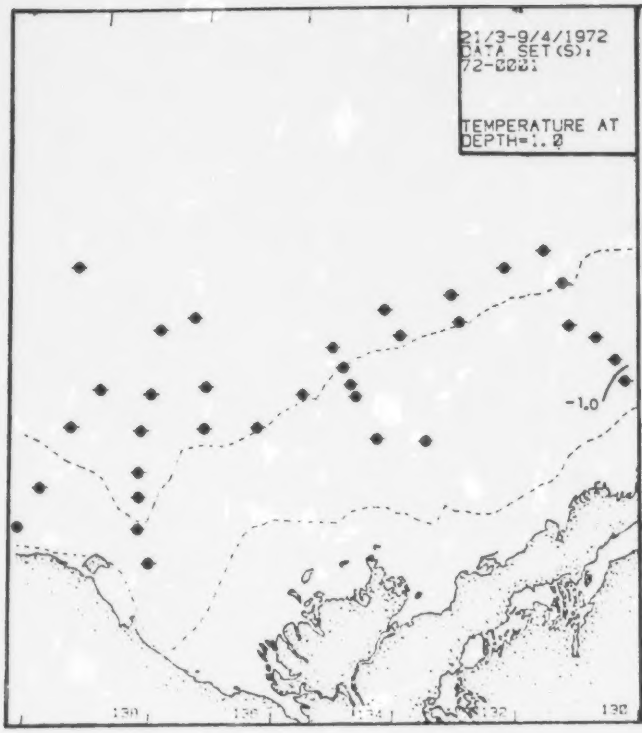

28/8/
-23/9/1970
DATA SET(S):
TEMPERATURE AT
SALINITY=3
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
220m
2.0
1.0
0.0
0.5
0.0
-0.5
0.0
0.5
1.0
1.5
1.0
0.0

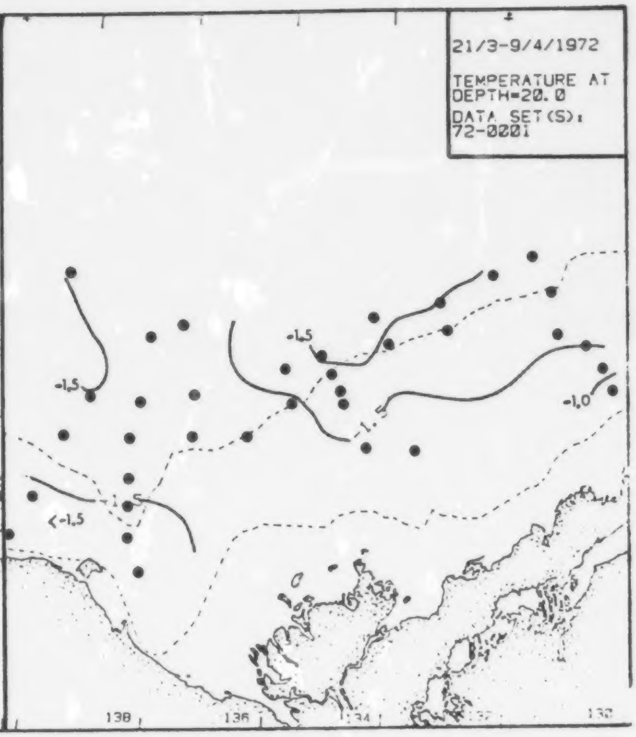

19/7/1971
TEMPERATURE AT
DEPTH=1.0
DATA SET(S):
71-0001
200m
200m
20m
200m
8
9
9
10
70
69
132
132
130
128
126
124


19/7/1971
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
71-0001
200m
200m
20m
200m
1.0
0.5
70
69
132
132
130
128
126
124


19/7/1971
SALINITY AT
DEPTH=1.0
DATA SET(S):
71-0001
200m
200m
20m
200m
15
16
17
18
19
20
21
70
69
132
132
130
128
126
124

2 67


21/3-9/4/1972
DATA SET(S):
72-0001
TEMPERATURE AT
DEPTH=1.0
-1.0
138
136
134
132
130


21/3-9/4/1972
TEMPERATURE AT
DEPTH=20.0
DATA SET(S):
72-0001
-1.5
-1.5
-1.5
-1.0
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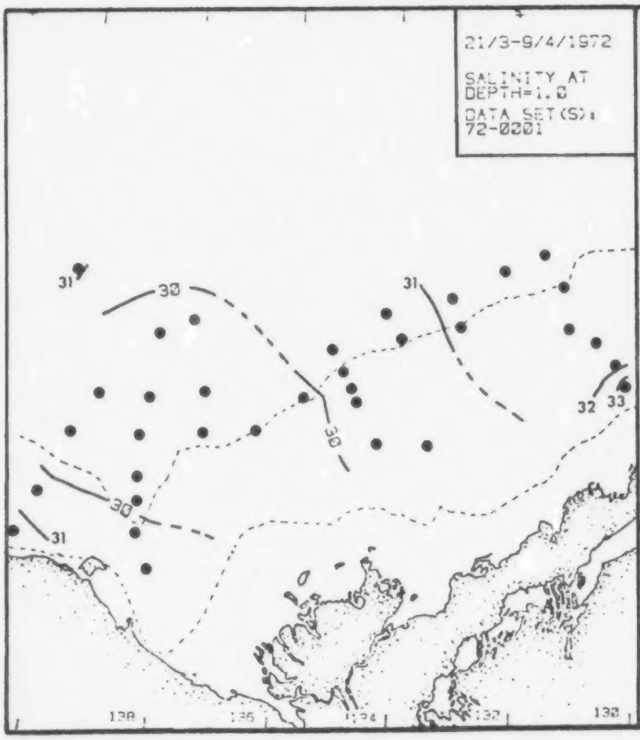
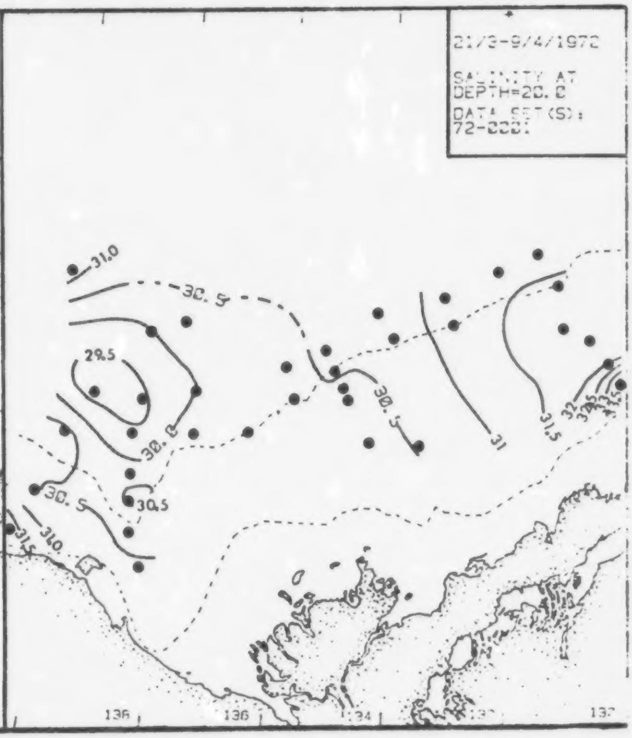
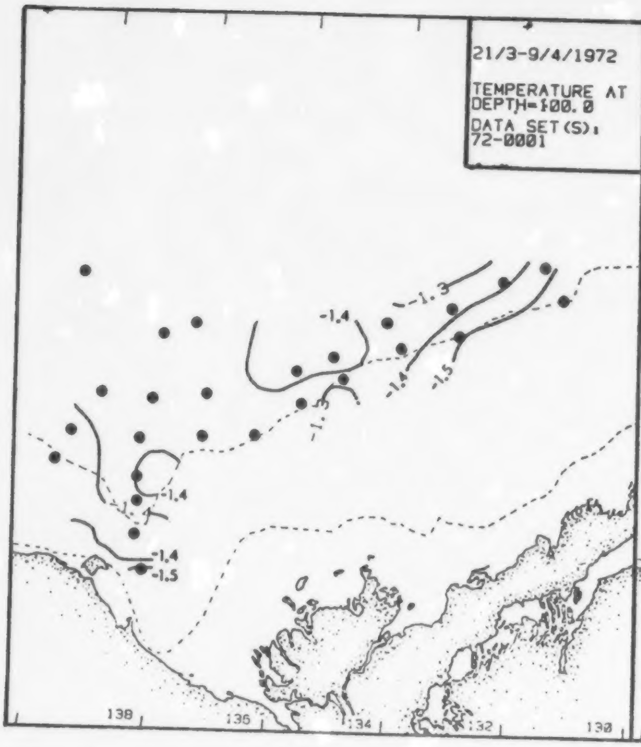
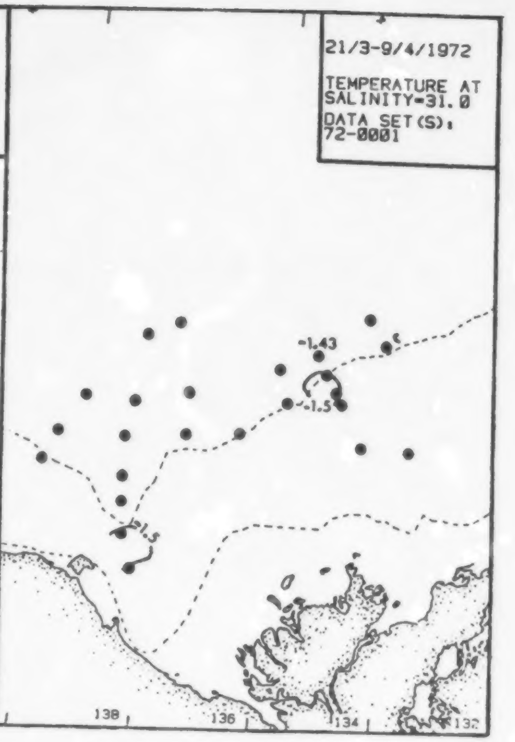
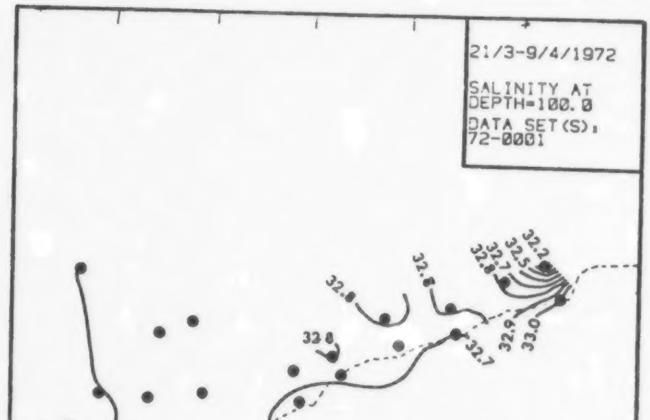
<-1.5
138
136
134
132
130

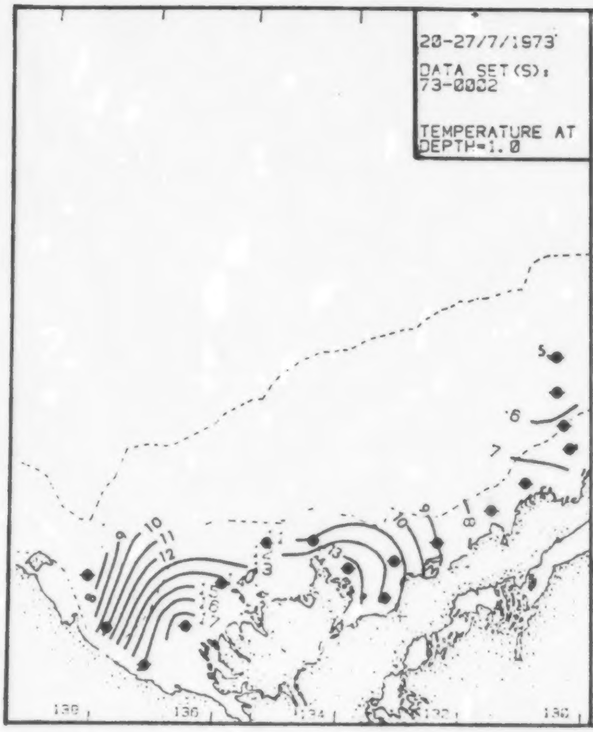

21/3-9/4/1972
SALINITY AT
DEPTH=1.0
DATA SET(S):
72-0001
31
30
31
30
32
33
30
31
138
136
134
132
130

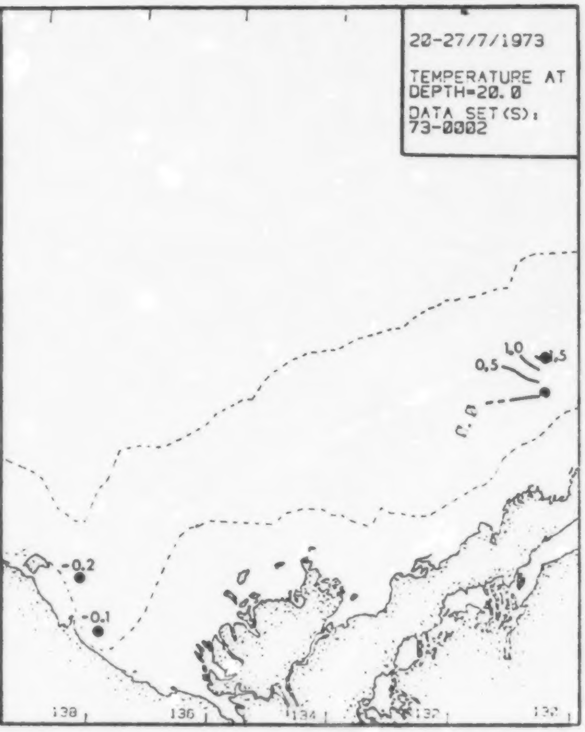

21/3-9/4/1972
SALINITY AT
DEPTH=20.0
DATA SET(S):
72-0001
31.0
30.5
29.5
30.0
30.5
30.5
31.0
30.5
31
31.5
32
32.5
33
33.5
138
136
134
132
130

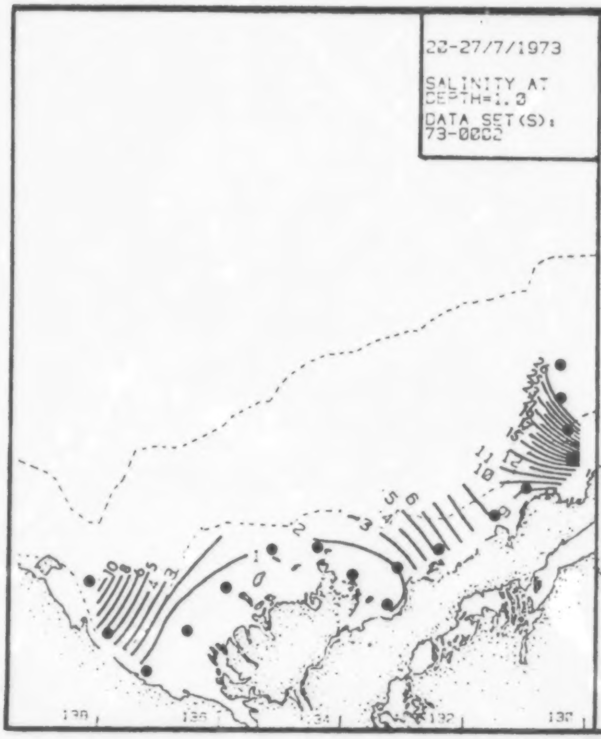

21/3-9/4/1972
TEMPERATURE AT
DEPTH=100.0
DATA SET(S):
72-0001
-1.3
-1.4
-1.5
138
136
134
132
130

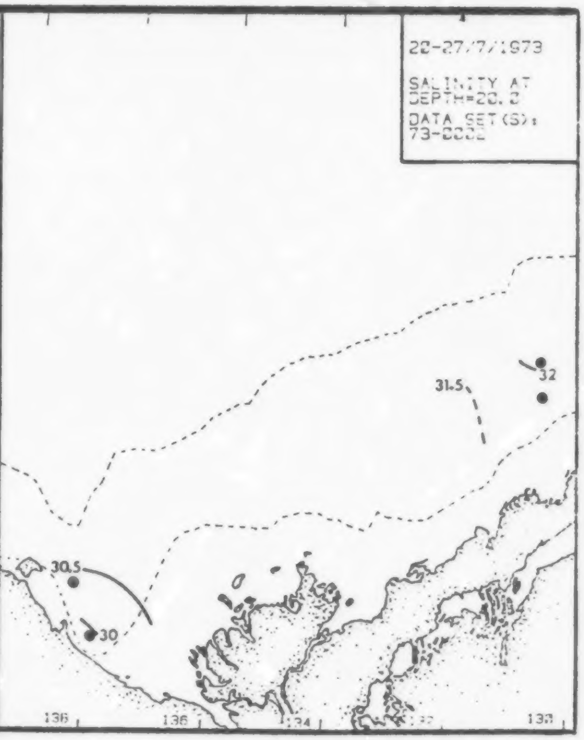

21/3-9/4/1972
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
72-0001
-1.43
-1.5
138
136
134
132

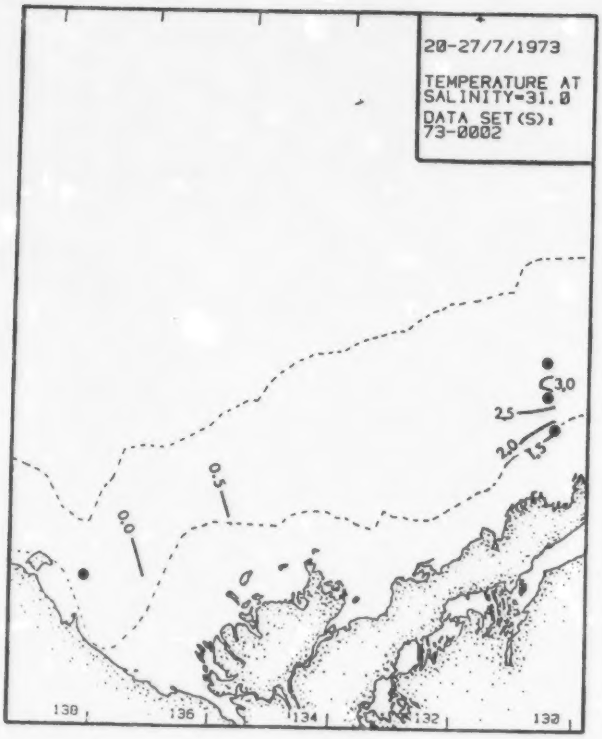

21/3-9/4/1972
SALINITY AT
DEPTH=100.0
DATA SET(S):
72-0001
32.2
32.5
32.7
32.8
32.9
33.0
32.6
138
136
134
132
130


20-27/7/1973
DATA SET(S):
73-0002
TEMPERATURE AT
DEPTH=1.0
5
6
7
8
9
10
11
12
13
138
136
134
132
130


20-27/7/1973
TEMPERATURE AT
DEPTH=20.0
DATA SET(S):
73-0002
-0.2
-0.1
0.0
0.5
1.0
1.5
138
136
134
132
130


20-27/7/1973
SALINITY AT
DEPTH=1.0
DATA SET(S):
73-0002
10
8
6
5
4
3
2
1
5
6
10
11
15
138
136
134
132
130


20-27/7/1973
SALINITY AT
DEPTH=20.0
DATA SET(S):
73-0002
30.5
30
31.5
32
138
136
134
132
130

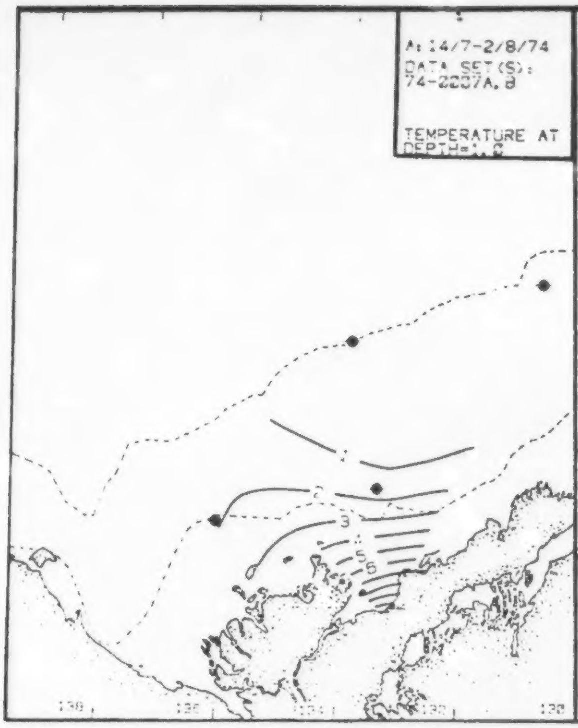


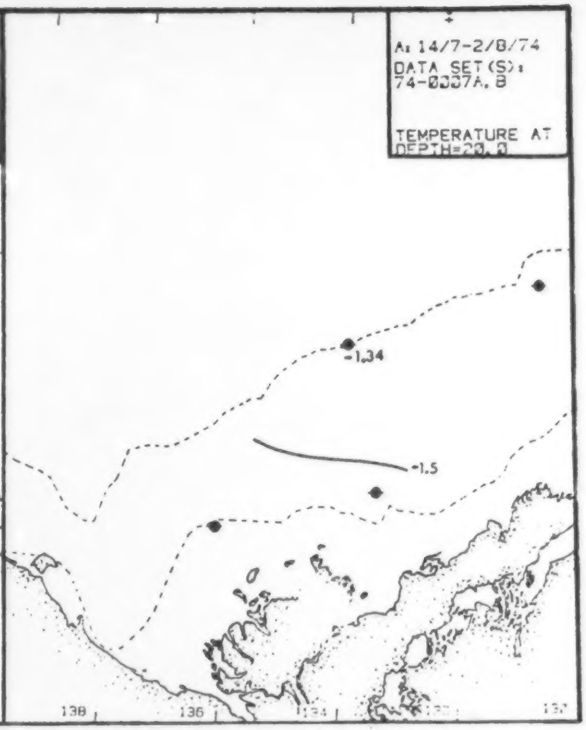
20-27/7/1973

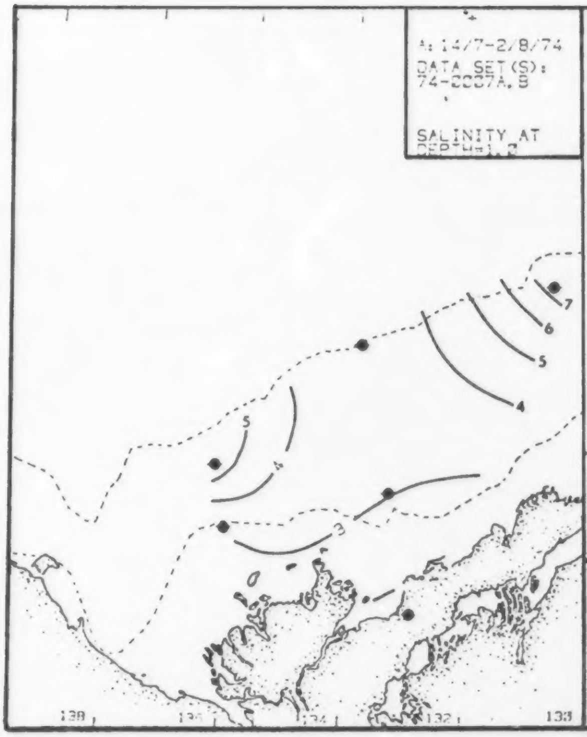
TEMPERATURE AT SALINITY=31.0

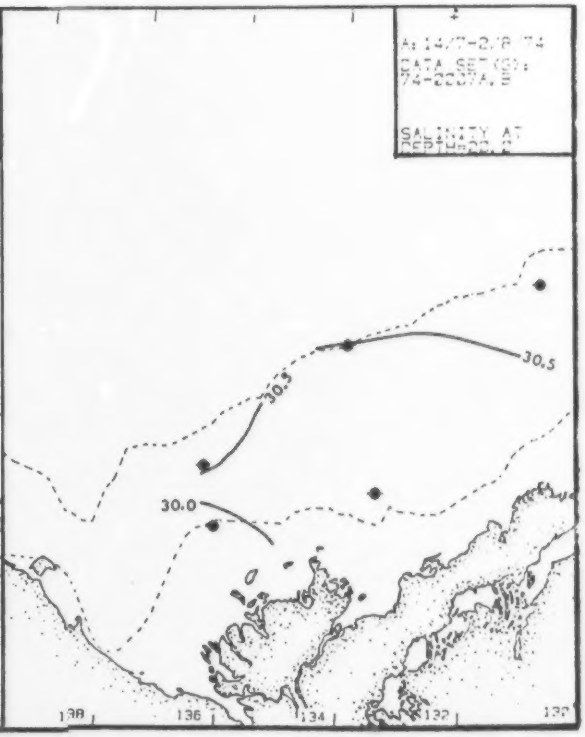
DATA SET(S): 73-0002

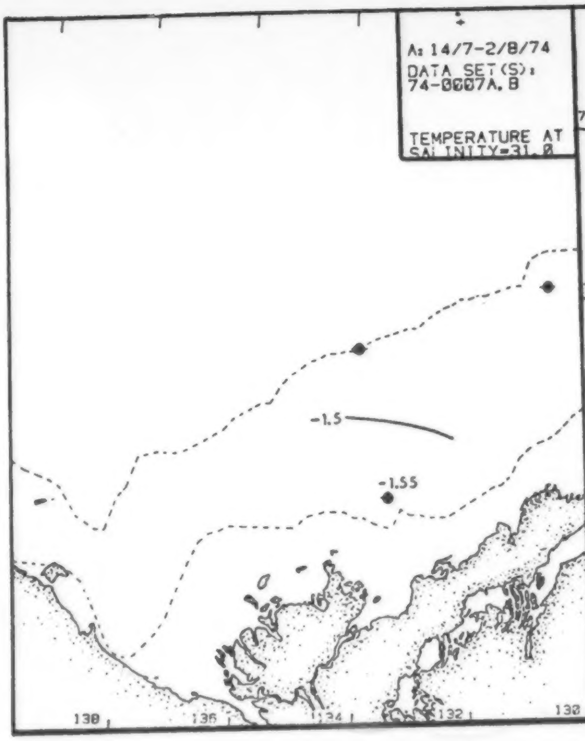
3.0
2.5
2.0
1.5
0.5
0.0
138
136
134
132
130

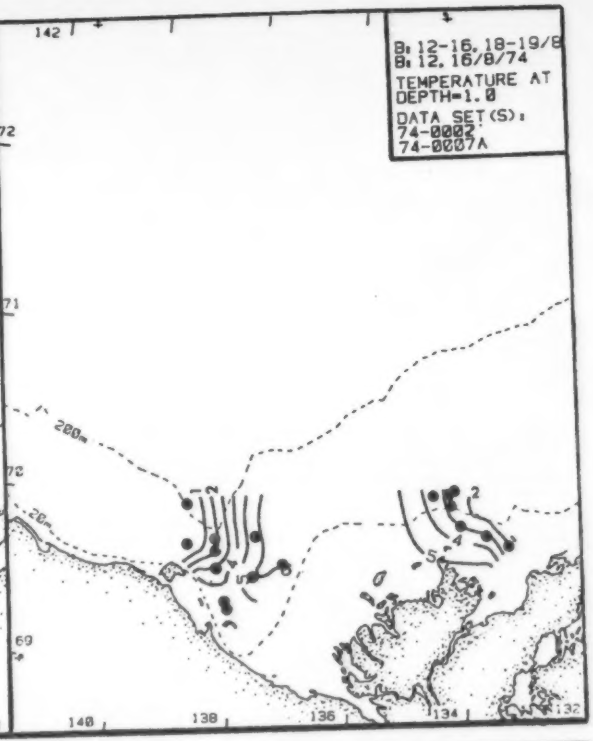

A: 14/7-2/8/74
DATA SET(S):
74-0007A.B
TEMPERATURE AT
DEPTH=1.0
1
2
3
4
5
6
138
136
134
132
130

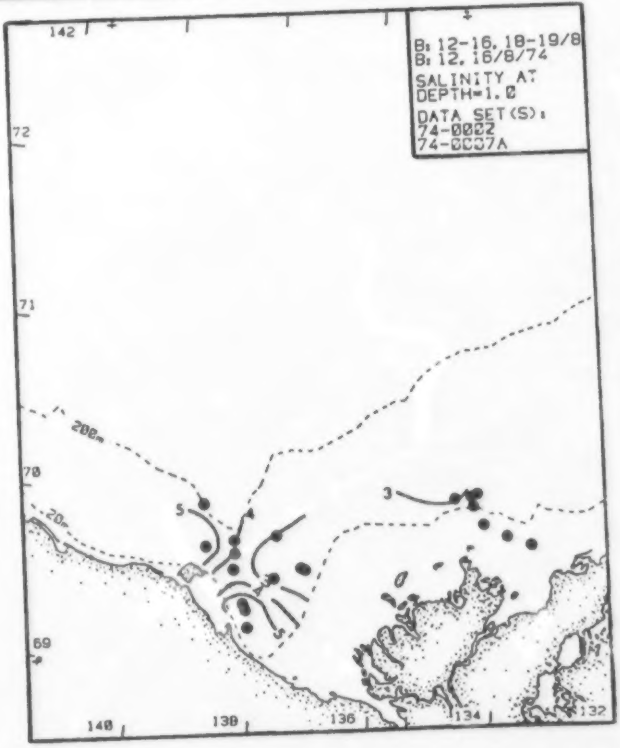

A: 14/7-2/8/74
DATA SET(S):
74-0007A.B
TEMPERATURE AT
DEPTH=20.0
-1.34
-1.5
138
136
134
132
130

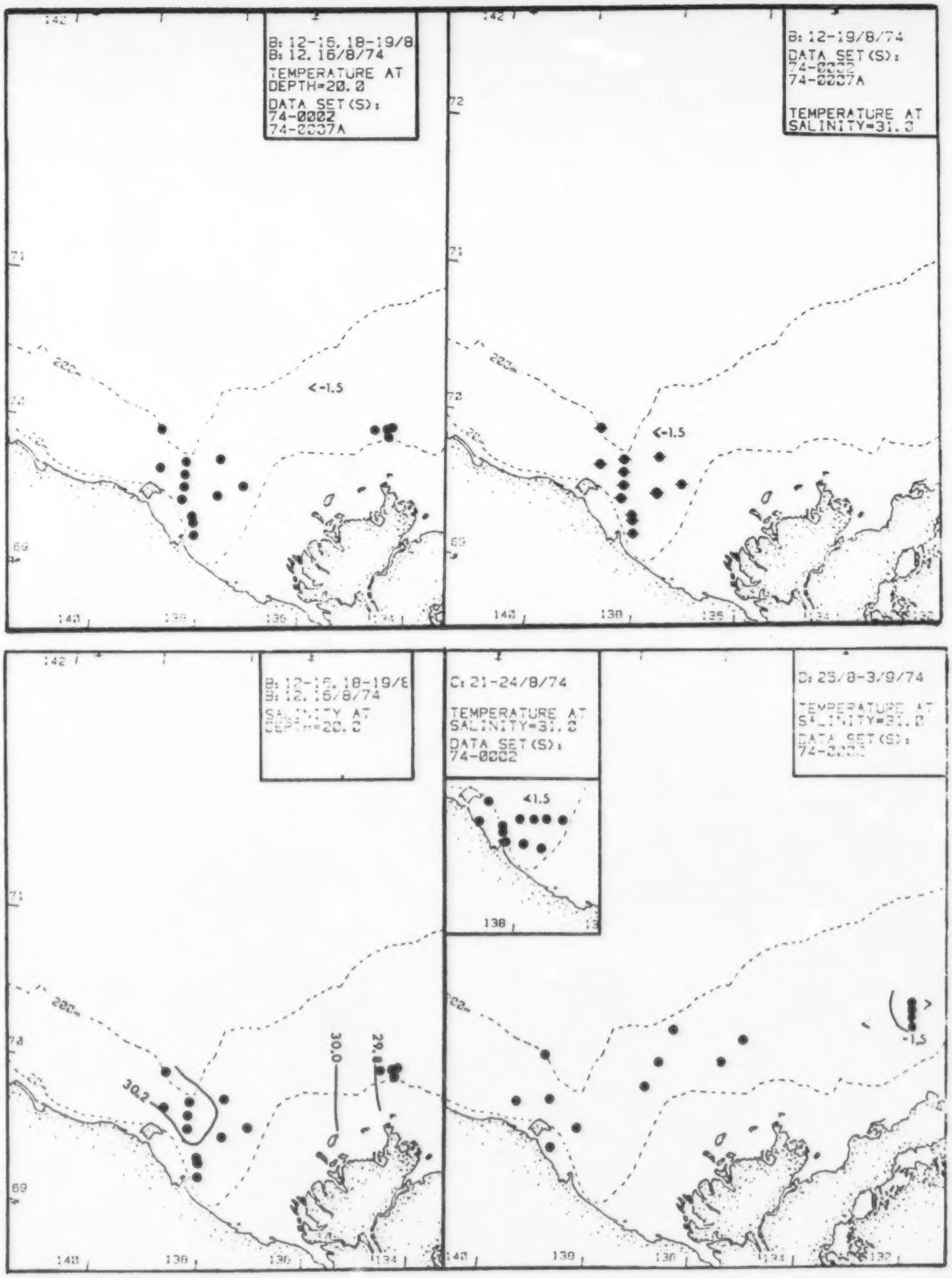

A: 14/7-2/8/74
DATA SET(S):
74-0007A.B
SALINITY AT
DEPTH=1.0
7
6
5
4
5
4
3
138
136
134
132
130


A: 14/7-2/8/74
DATA SET(S):
74-0007A.B
SALINITY AT
DEPTH=20.0
30.5
30.5
30.0
138
136
134
132
130

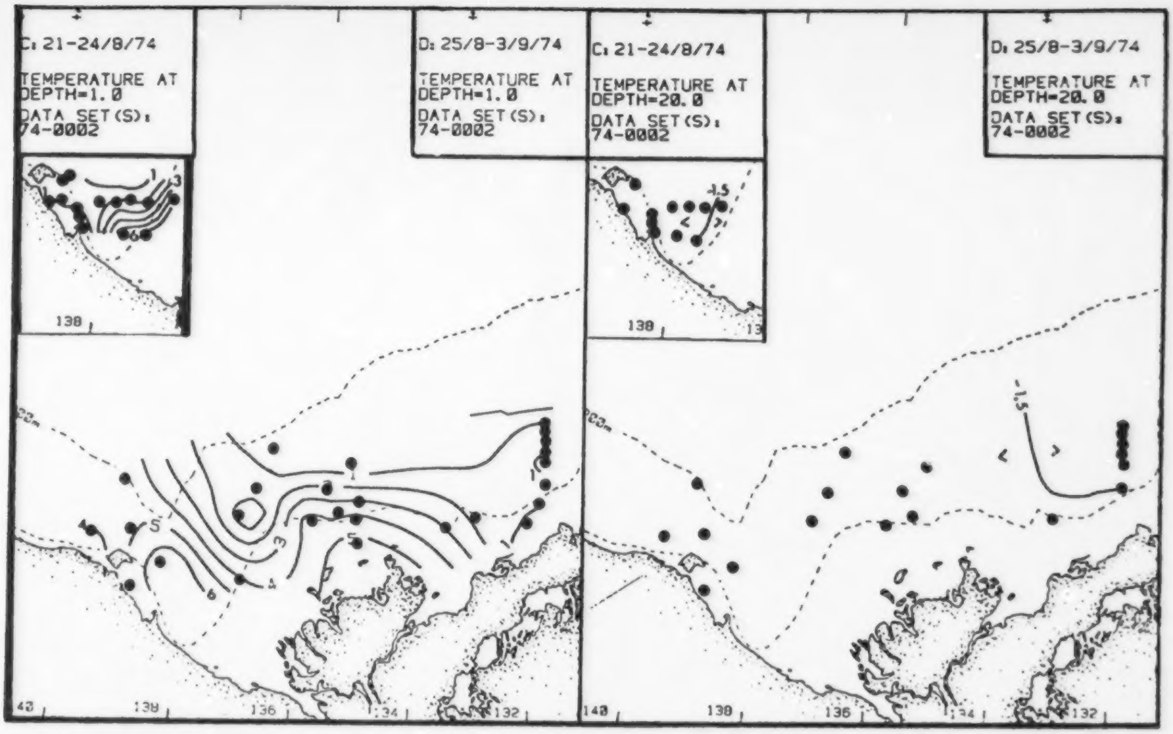

A: 14/7-2/8/74
DATA SET(S): 74-0007A,B
TEMPERATURE AT SALINITY=31.0
-1.5
-1.55
138
136
134
132
130

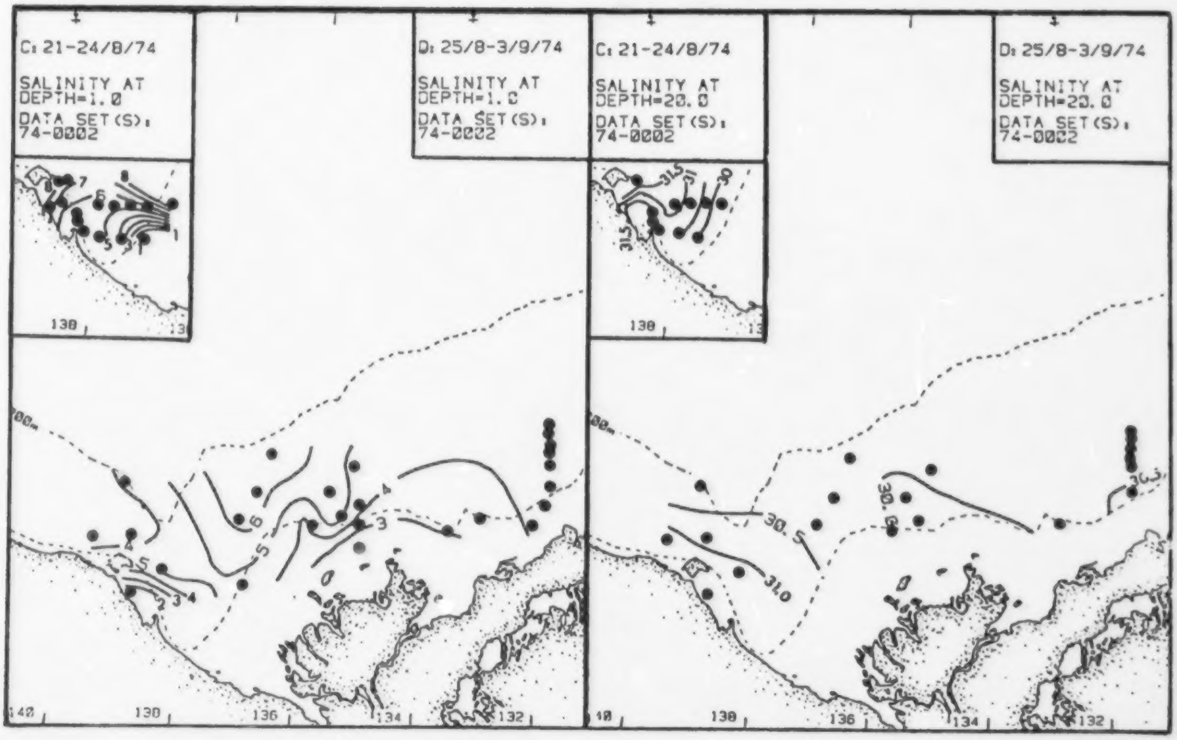

B: 12-16,18-19/8
B: 12,16/8/74
TEMPERATURE AT DEPTH=1.0
DATA SET(S): 74-0002 74-0007A
142
72
71
70
69
200m
20m
2
4
5
140
138
136
134
132

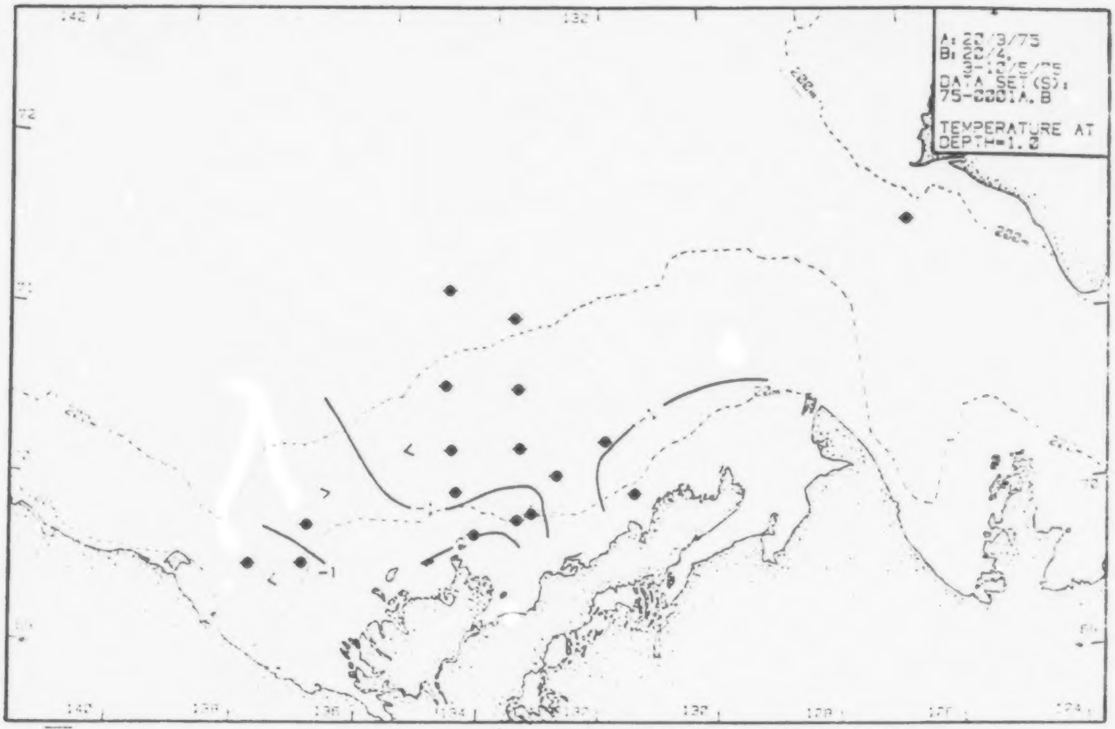

B: 12-16,18-19/8
B: 12,16/8/74
SALINITY AT DEPTH=1.0
DATA SET(S): 74-0002 74-0007A
142
72
71
70
69
200m
20m
5
3
140
138
136
134
132

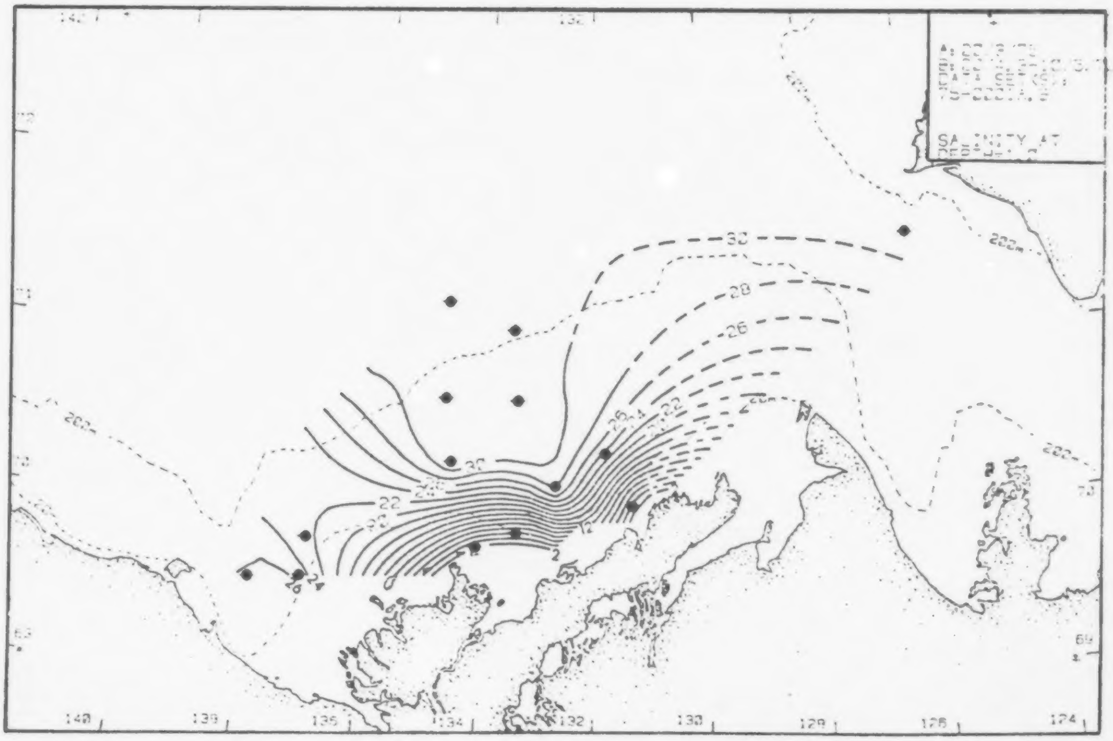

B: 12-16, 18-19/8
B: 12, 16/8/74
TEMPERATURE AT
DEPTH=20.0
DATA SET(S):
74-0002
74-0007A
<-1.5
200m
142
72
71
70
69
140
138
136
134
B: 12-19/8/74
DATA SET(S):
74-0002
74-0007A
TEMPERATURE AT
SALINITY=31.0
<-1.5
132
B: 12-16, 18-19/8
B: 12, 16/8/74
SALINITY AT
DEPTH=20.0
30.2
30.0
29.8
C: 21-24/8/74
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
74-0002
<1.5
D: 25/8-3/9/74
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
74-0003
>
-1.5

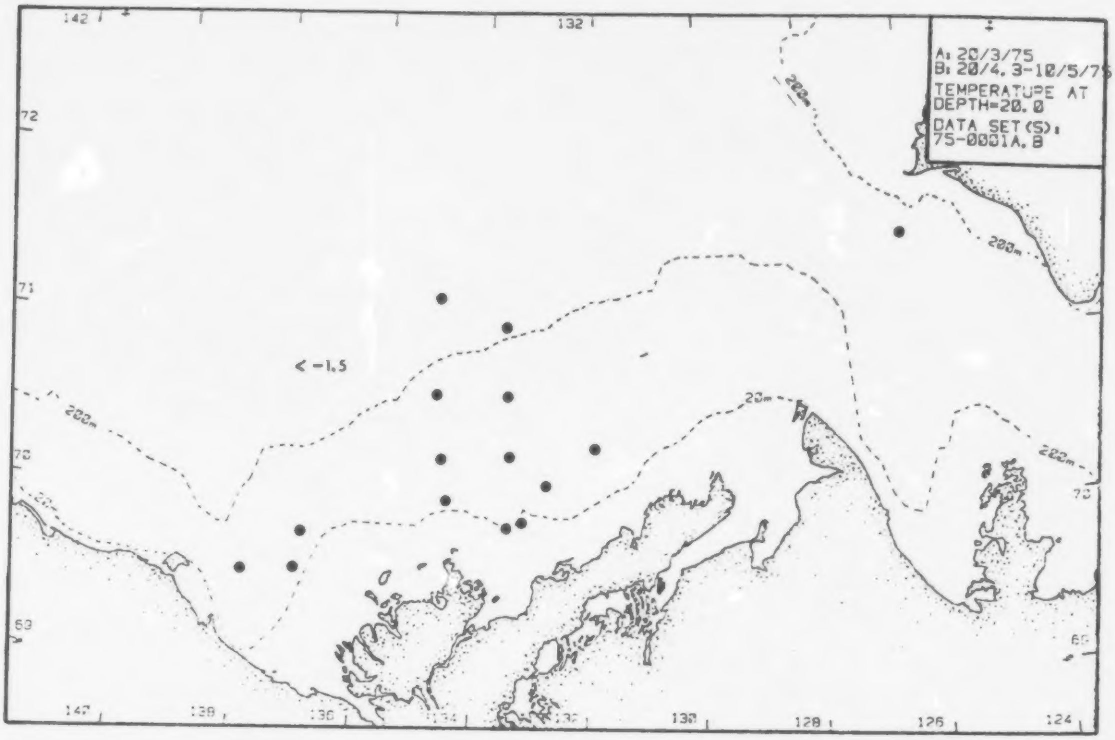
2 74

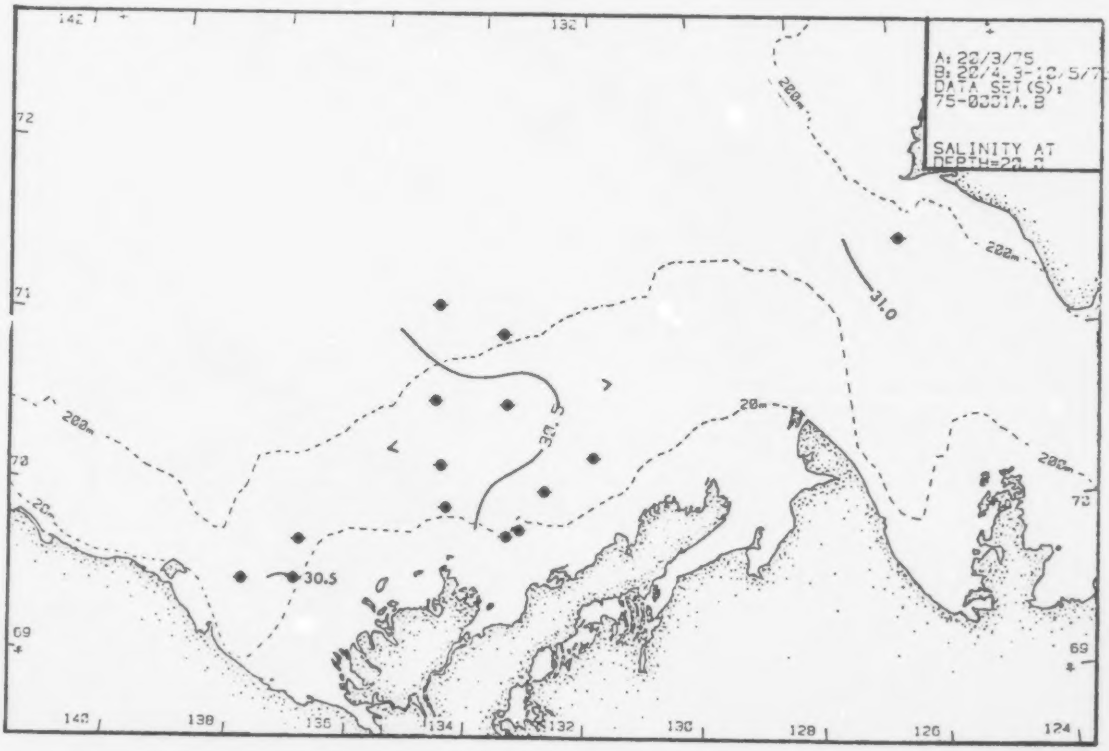

C: 21-24/8/74
TEMPERATURE AT DEPTH=1.0
DATA SET(S): 74-0002
D: 25/8-3/9/74
TEMPERATURE AT DEPTH=1.0
DATA SET(S): 74-0002
C: 21-24/8/74
TEMPERATURE AT DEPTH=20.0
DATA SET(S): 74-0002
D: 25/8-3/9/74
TEMPERATURE AT DEPTH=20.0
DATA SET(S): 74-0002
200m
140
138
136
134
132


C: 21-24/8/74
SALINITY AT DEPTH=1.0
DATA SET(S): 74-0002
D: 25/8-3/9/74
SALINITY AT DEPTH=1.0
DATA SET(S): 74-0002
C: 21-24/8/74
SALINITY AT DEPTH=20.0
DATA SET(S): 74-0002
D: 25/8-3/9/74
SALINITY AT DEPTH=20.0
DATA SET(S): 74-0002
200m
30.5
31.0
140
138
136
134
132


A: 22/3/75
B: 22/4,
3-12/5/75
DATA SET(S):
75-2201A, B
TEMPERATURE AT
DEPTH=1.2
142
132
72
69
140
138
136
134
132
130
128
126
124
200m
-1


SALINITY AT
142
132
72
69
140
138
136
134
132
130
128
126
124
200m
30
28
26
22
24
26
12
2


A: 20/3/75
B: 20/4.3-10/5/75
TEMPERATURE AT
DEPTH=20.0
DATA SET(S):
75-0001A.B
< -1.5
200m
200m
200m
200m
20m
20m
142
132
72
71
70
70
69
69
140
138
136
134
132
130
128
126
124


A: 20/3/75
B: 20/4.3-10/5/75
DATA SET(S):
75-0001A.B
SALINITY AT
DEPTH=20.0
31.0
30.5
30.5
<
>
200m
200m
200m
200m
20m
20m
142
132
72
71
70
70
69
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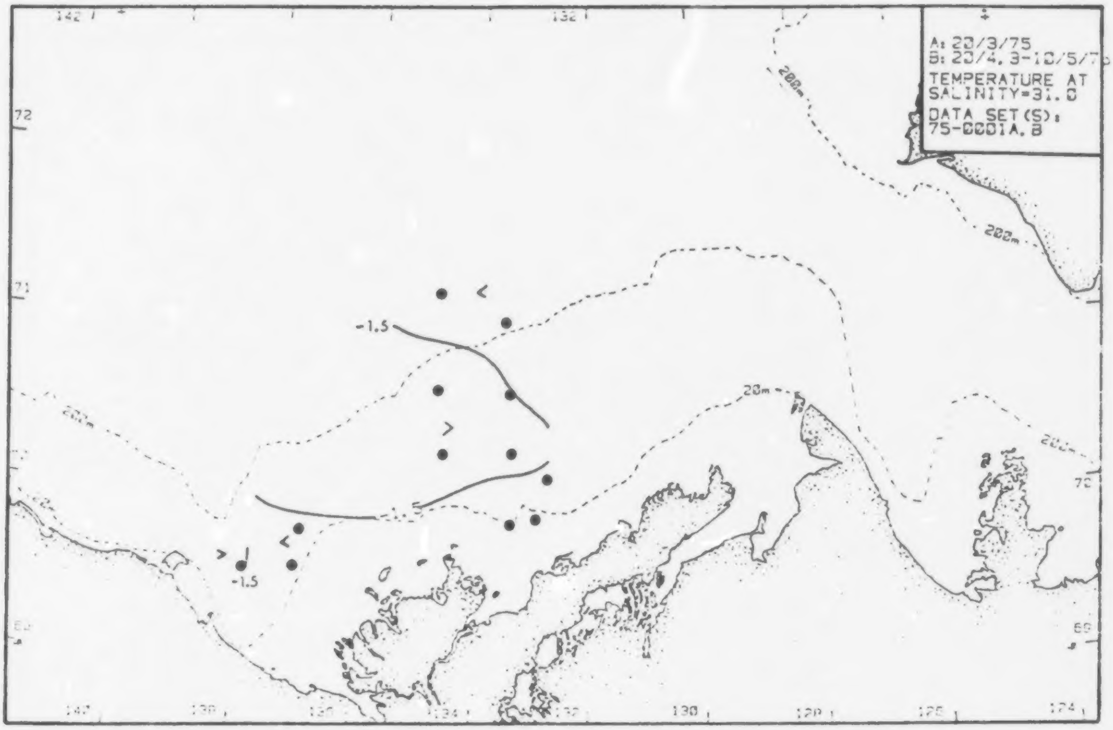
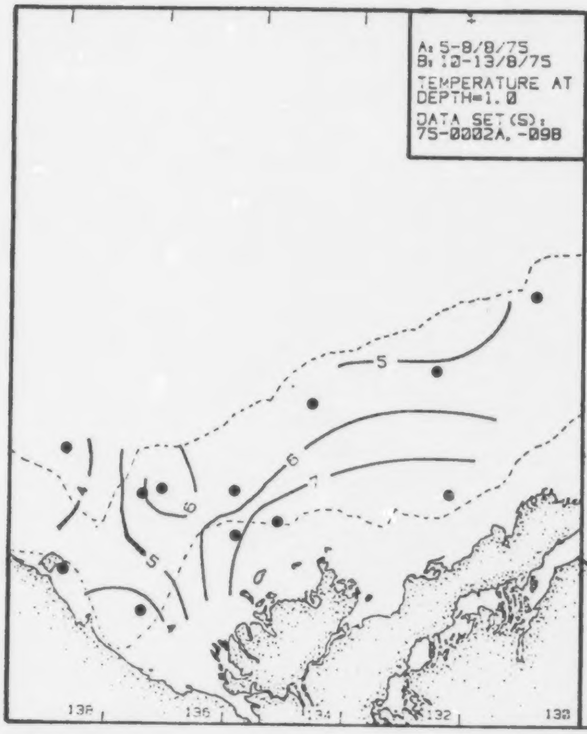
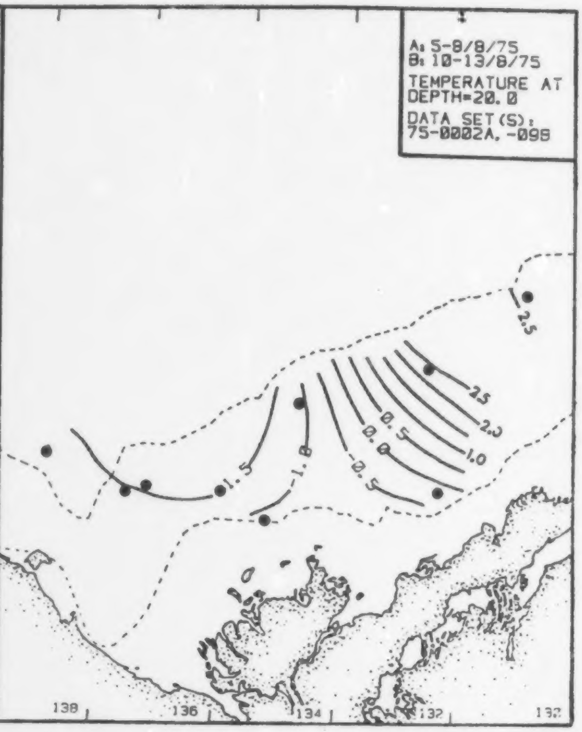
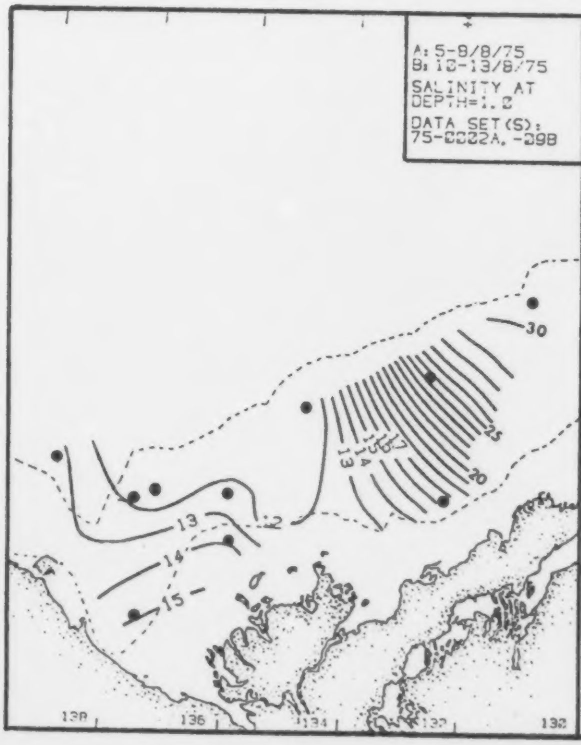
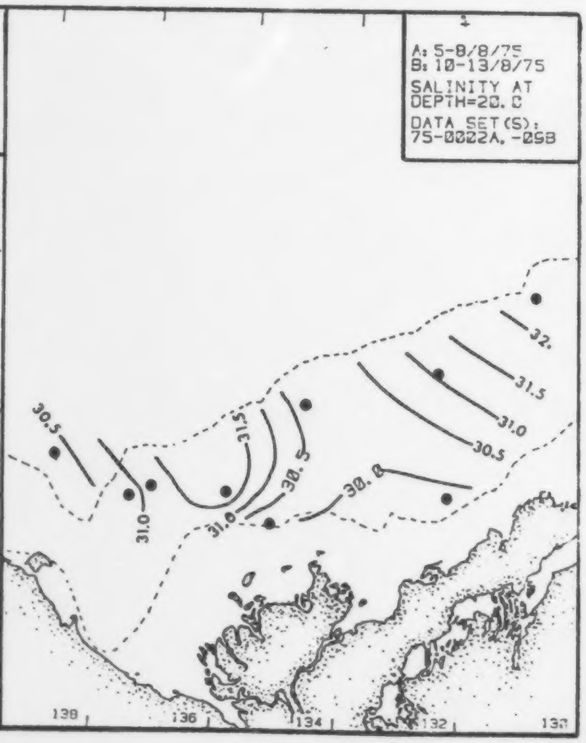
140
138
136
134
132
130
128
126
124

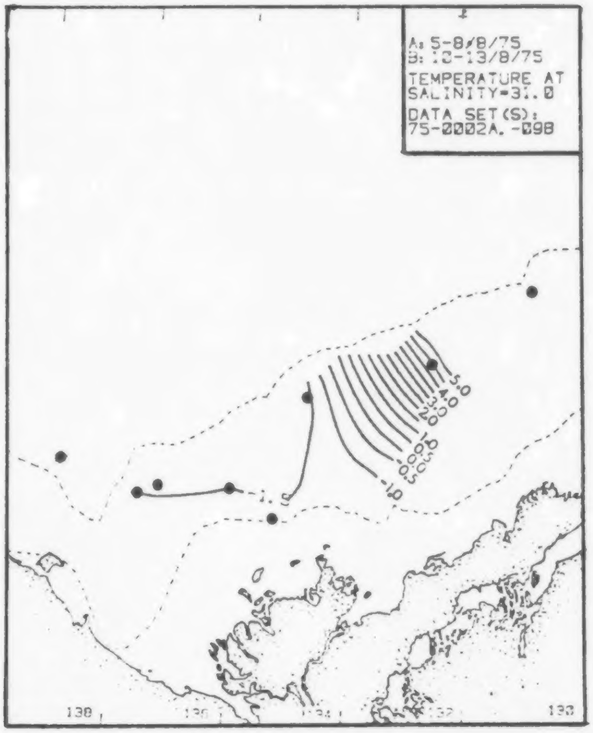

A: 20/3/75
B: 20/4.3-10/5/75
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
75-0001A.B
142
132
72
71
69
70
69
-1.5
-1.5
200m
200m
200m
200m
20m
140
138
136
134
132
130
128
126
124

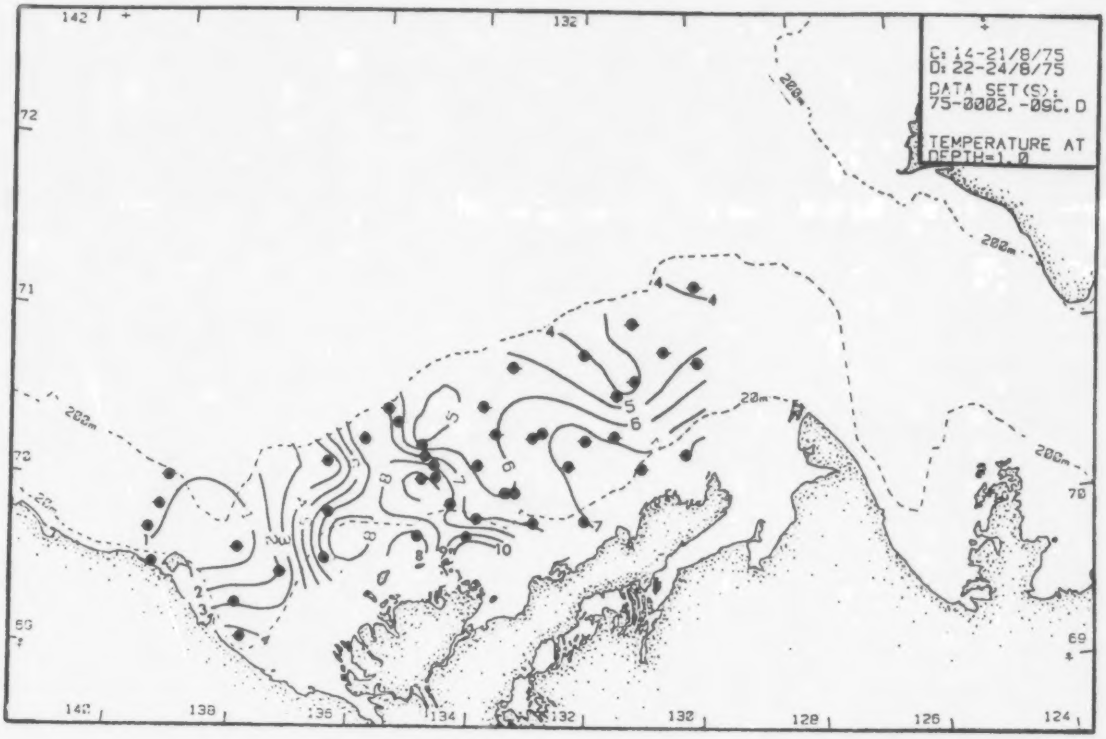

A: 5-8/8/75
B: 10-13/8/75
TEMPERATURE AT
DEPTH=1.0
DATA SET(S):
75-0002A, -09B
5
6
7
6
5
4
138
136
134
132
130

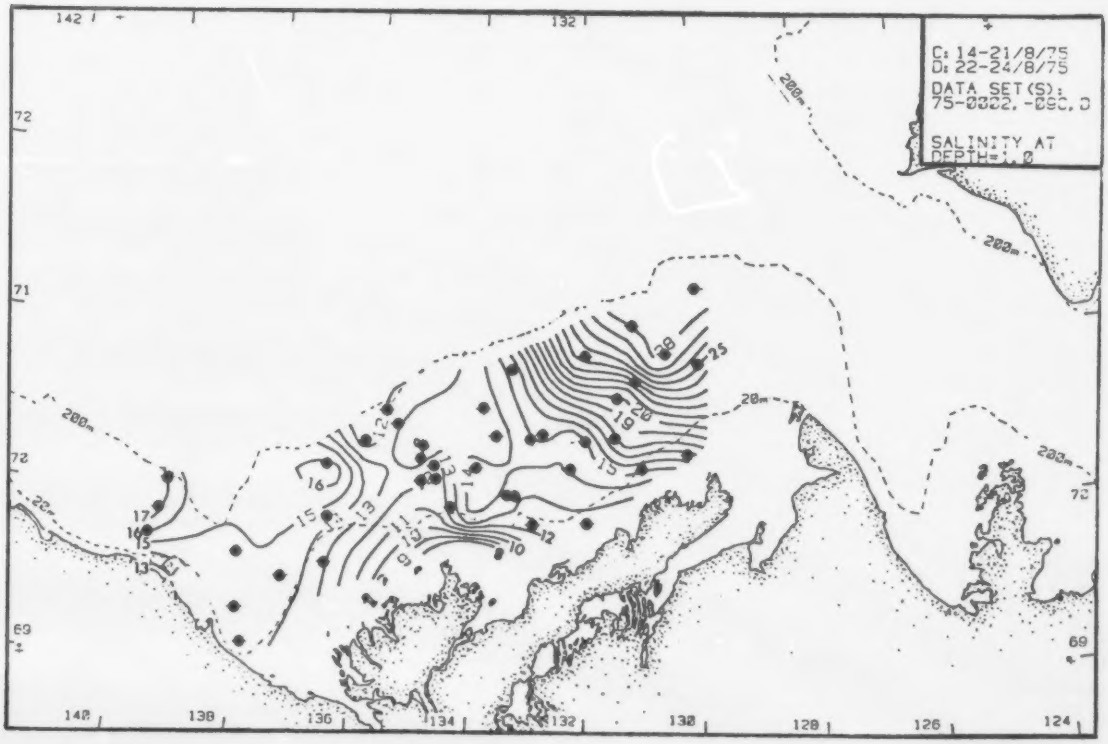

A: 5-8/8/75
B: 10-13/8/75
TEMPERATURE AT
DEPTH=20.0
DATA SET(S):
75-0002A, -09B
2.5
2.5
2.0
1.0
0.5
0.0
2.5
1.5
1.8
138
136
134
132
130


A: 5-8/8/75
B: 10-13/8/75
SALINITY AT
DEPTH=1.0
DATA SET(S):
75-0022A, -09B
30
25
20
13
14
15
17
13
12
14
15
138
136
134
132
130


A: 5-8/8/75
B: 10-13/8/75
SALINITY AT
DEPTH=20.0
DATA SET(S):
75-0022A, -09B
32.
31.5
31.0
30.5
30.0
30.5
31.5
31.0
31.0
30.5
138
136
134
132
130


A: 5-8/8/75
B: 10-13/8/75
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
75-0002A.-098
5.0
4.0
3.0
2.0
1.0
0.5
0.0
-0.5
-1.0
1.5
138
136
134
132
130


C: 14-21/8/75
D: 22-24/8/75
DATA SET(S):
75-0002.-09C.D
TEMPERATURE AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
1
2
3
4
5
6
7
8
9
10


C: 14-21/8/75
D: 22-24/8/75
DATA SET(S):
75-0002.-09C.D
SALINITY AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
10
12
13
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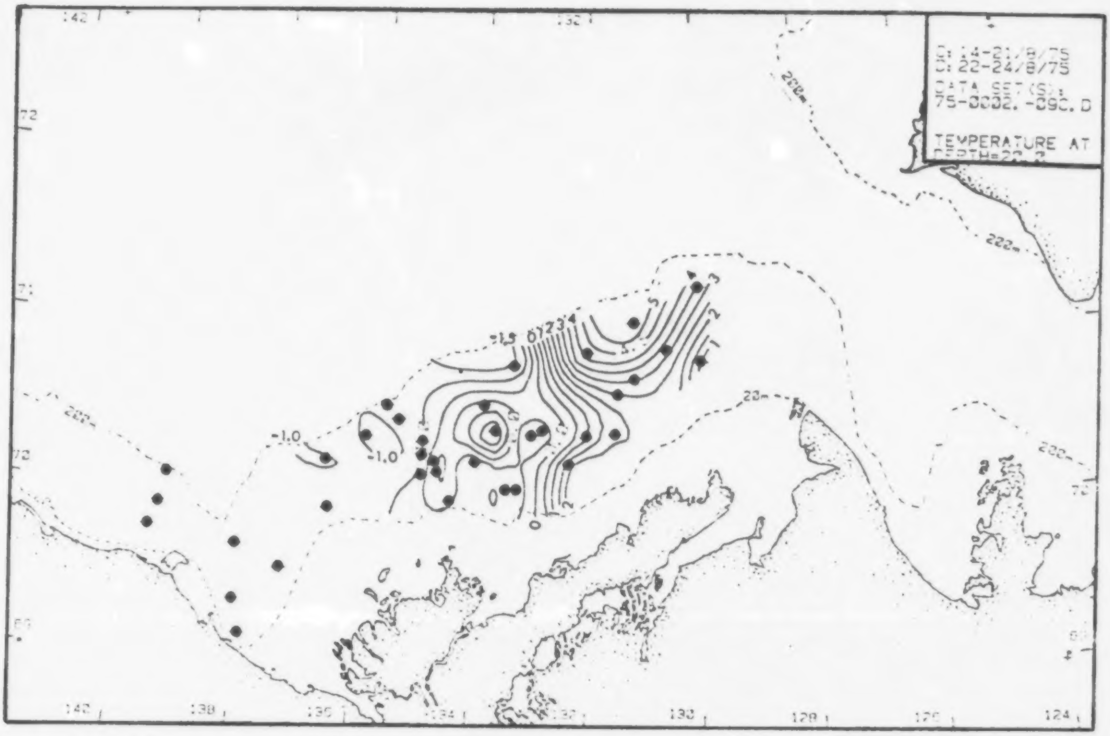
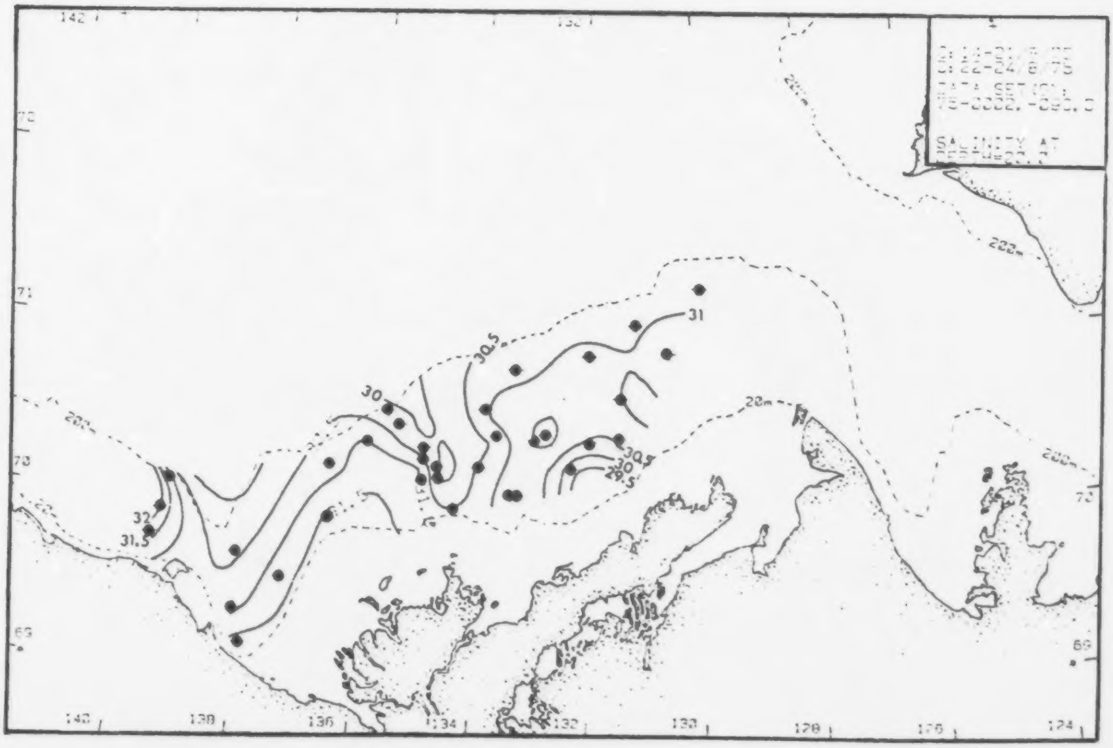
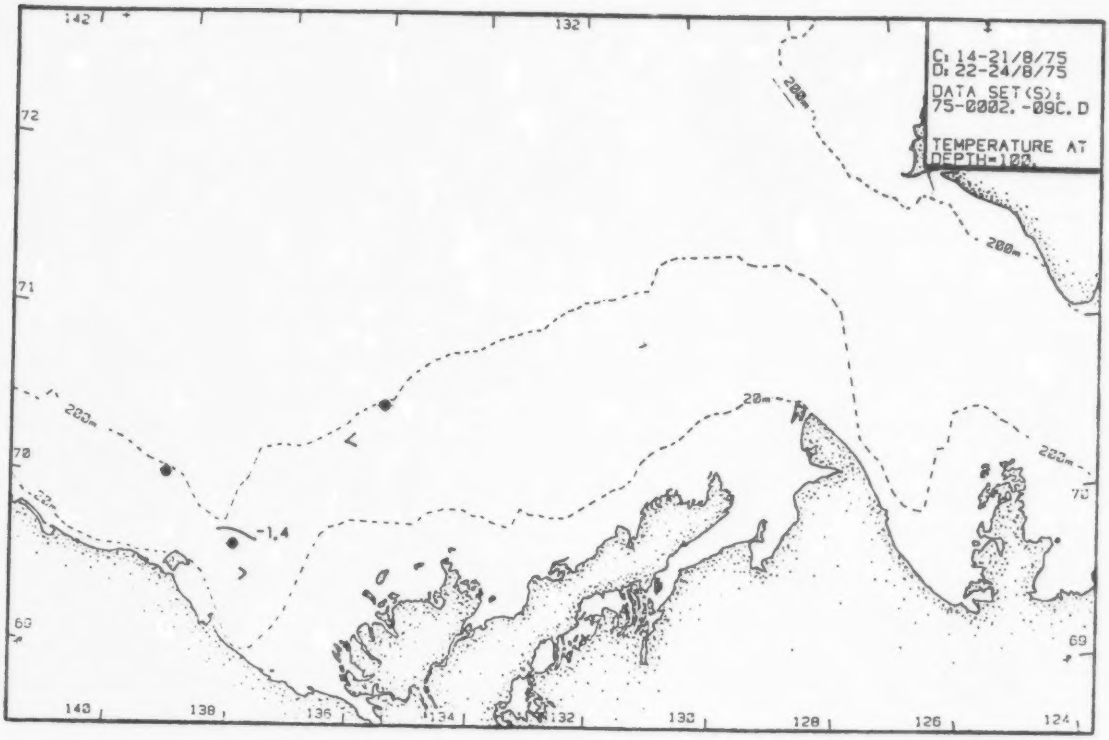
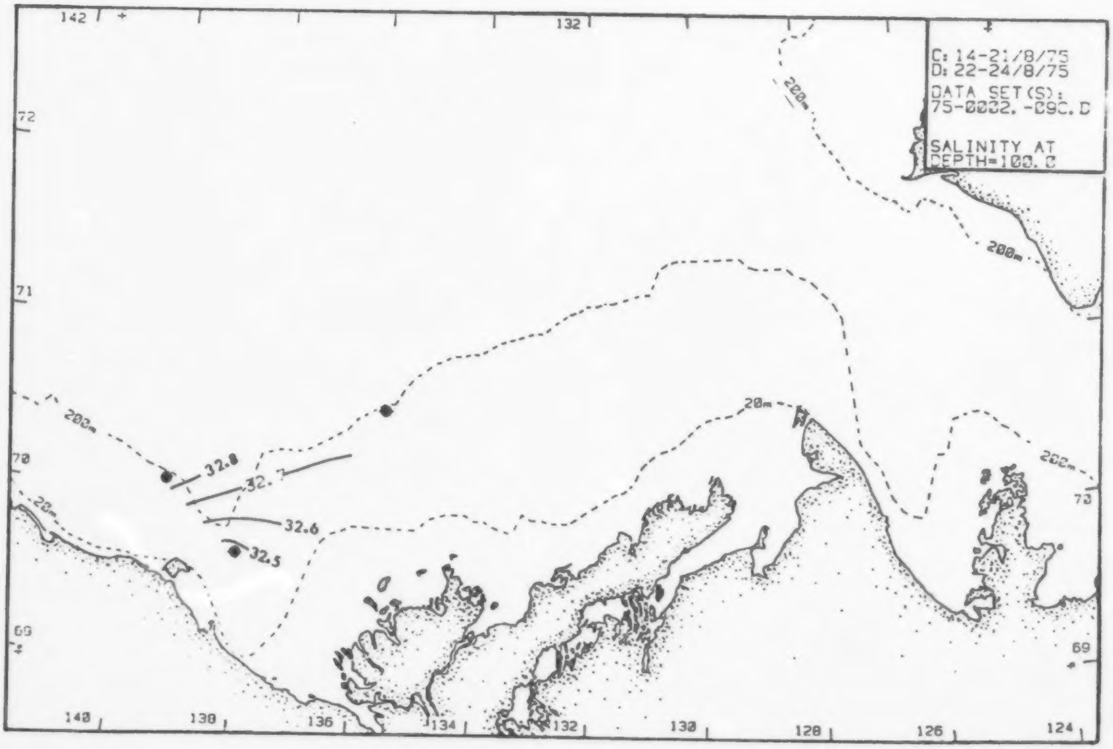
25
28


D: 14-21/8/75
C: 22-24/8/75
DATA SET(S):
75-0002.-09C.D
TEMPERATURE AT
DEPTH=22.2
142
132
72
71
70
69
222m
22m
-1.5
0
1
2
3
4
5
-1.0
140
138
136
134
132
130
128
126
124


D: 14-21/8/75
C: 22-24/8/75
DATA SET(S):
75-0002.-09C.D
SALINITY AT
DEPTH=22.2
142
132
72
71
70
69
222m
22m
31
30.5
30
29.5
32
31.5
140
138
136
134
132
130
128
126
124


142
132
C: 14-21/8/75
D: 22-24/8/75
DATA SET(S):
75-0002.-09C.D
TEMPERATURE AT
DEPTH=100.
200m
200m
200m
200m
20m
20m
-1.4
72
71
70
70
69
69
140
138
136
134
132
130
128
126
124


142
132
C: 14-21/8/75
D: 22-24/8/75
DATA SET(S):
75-0002.-09C.D
SALINITY AT
DEPTH=100.0
200m
200m
200m
200m
20m
20m
32.8
32.7
32.6
32.5
72
71
70
70
69
69
140
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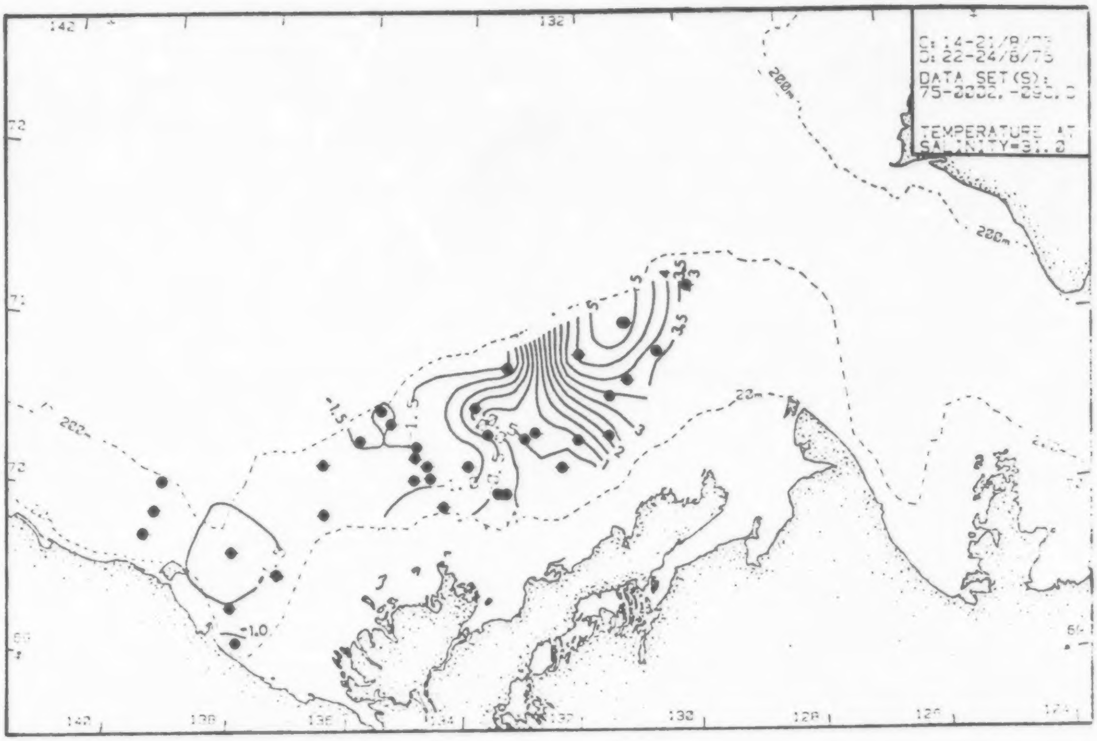
136
134
132
130
128
126
124


C: 14-21/8/75
D: 22-24/8/75
DATA SET(S):
75-2002, -290.0
TEMPERATURE AT
SALINITY=31.0
142
132
72
71
70
69
200m
200m
200m
200m
-1.5
-1.5
-1.0
.5
.5
3.5
3.5
3
3
2
.5
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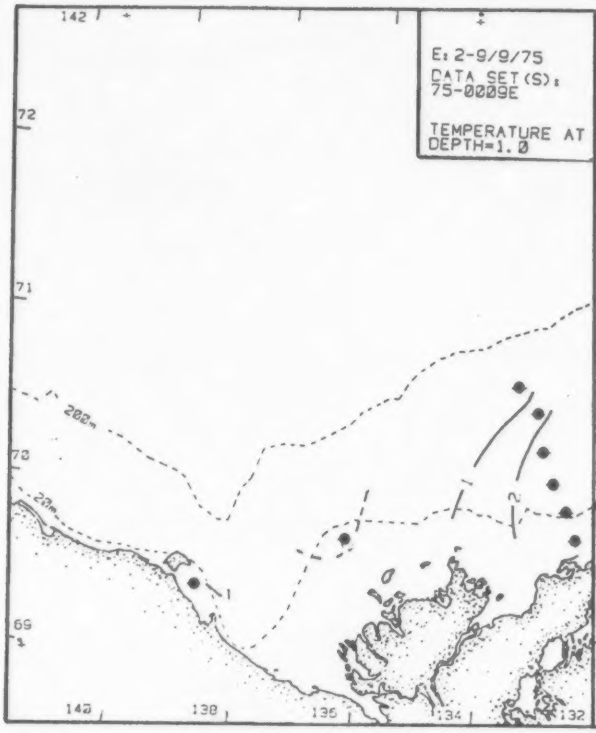
128
126
124


E: 2-9/9/75
DATA SET(S):
75-0009E
TEMPERATURE AT
DEPTH=1.0
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72
71
70
69
140
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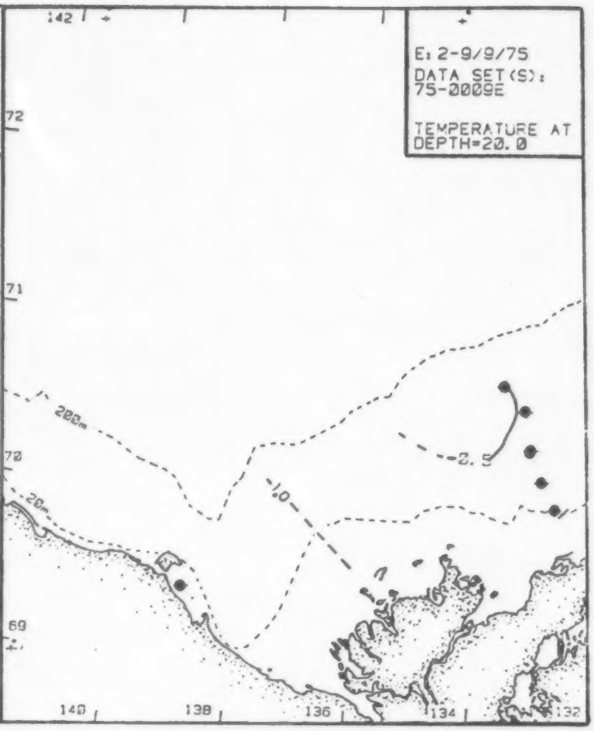
136
134
132
200m
20m
1
2


E: 2-9/9/75
DATA SET(S):
75-0009E
TEMPERATURE AT
DEPTH=20.0
142
72
71
70
69
140
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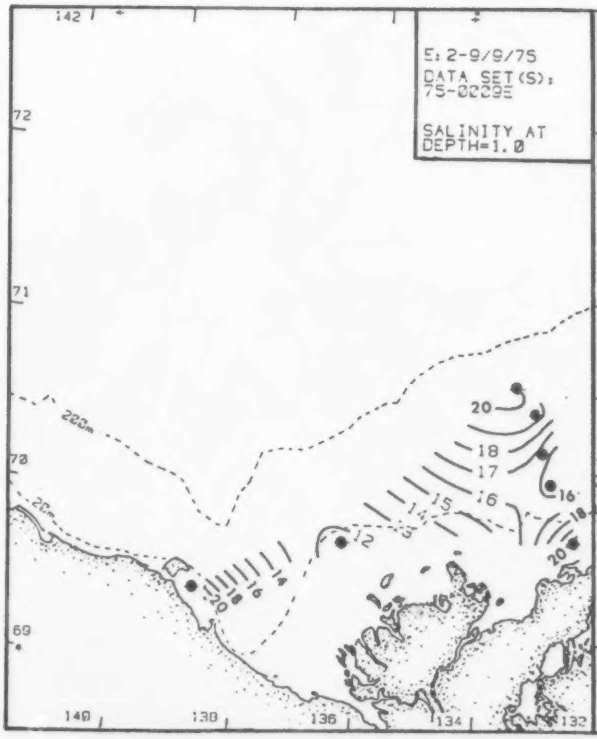
200m
20m
-1.0
-2.5


E: 2-9/9/75
DATA SET(S):
75-0009E
SALINITY AT
DEPTH=1.0
142
72
71
70
69
140
138
136
134
132
200m
20m
20
18
17
16
16
15
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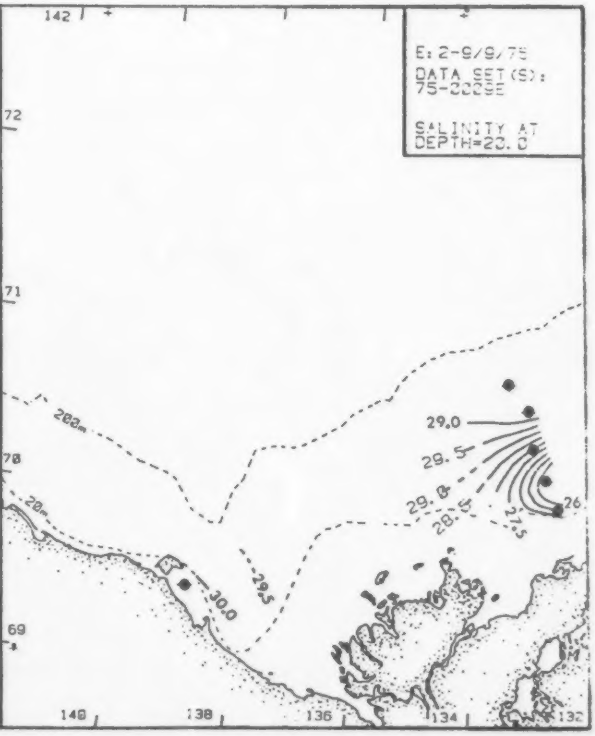
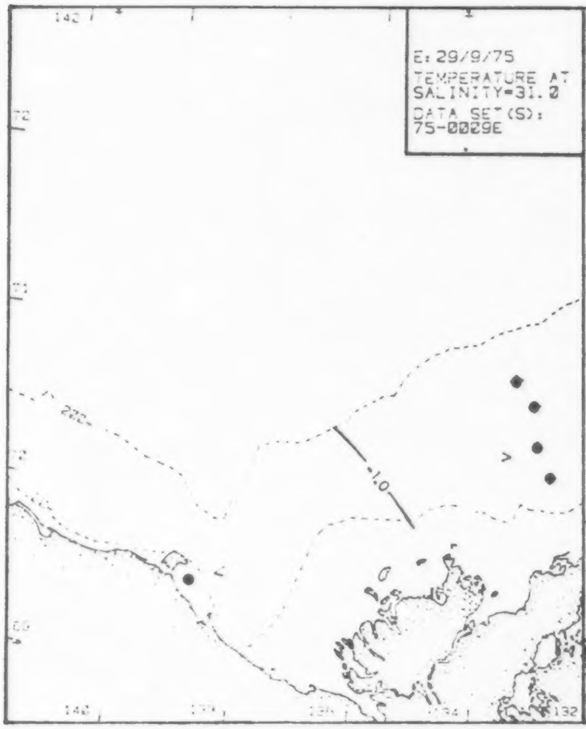
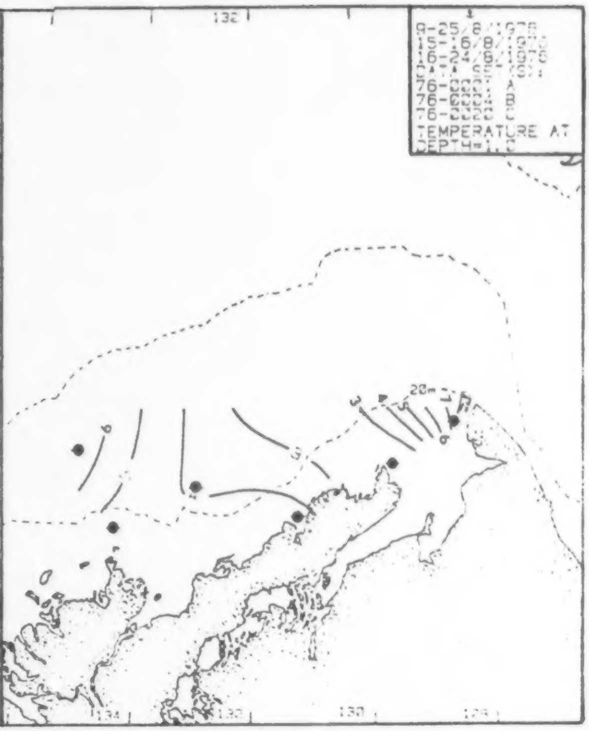
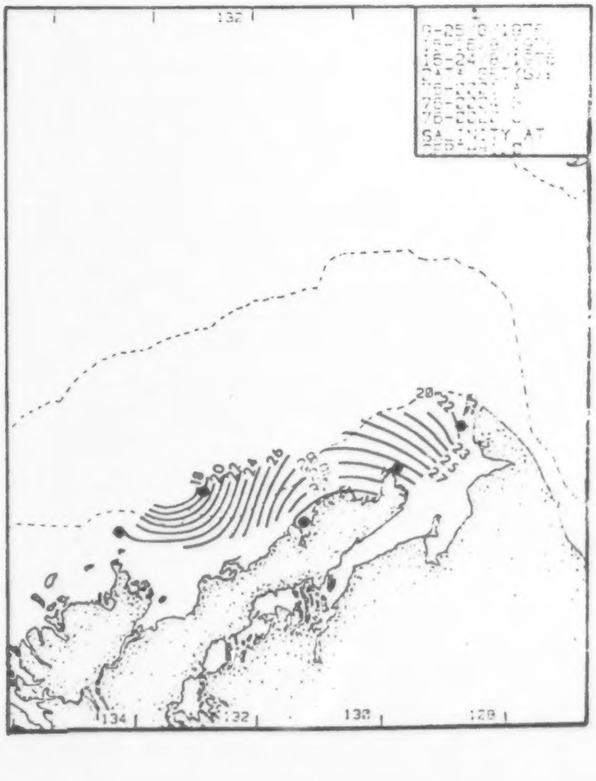
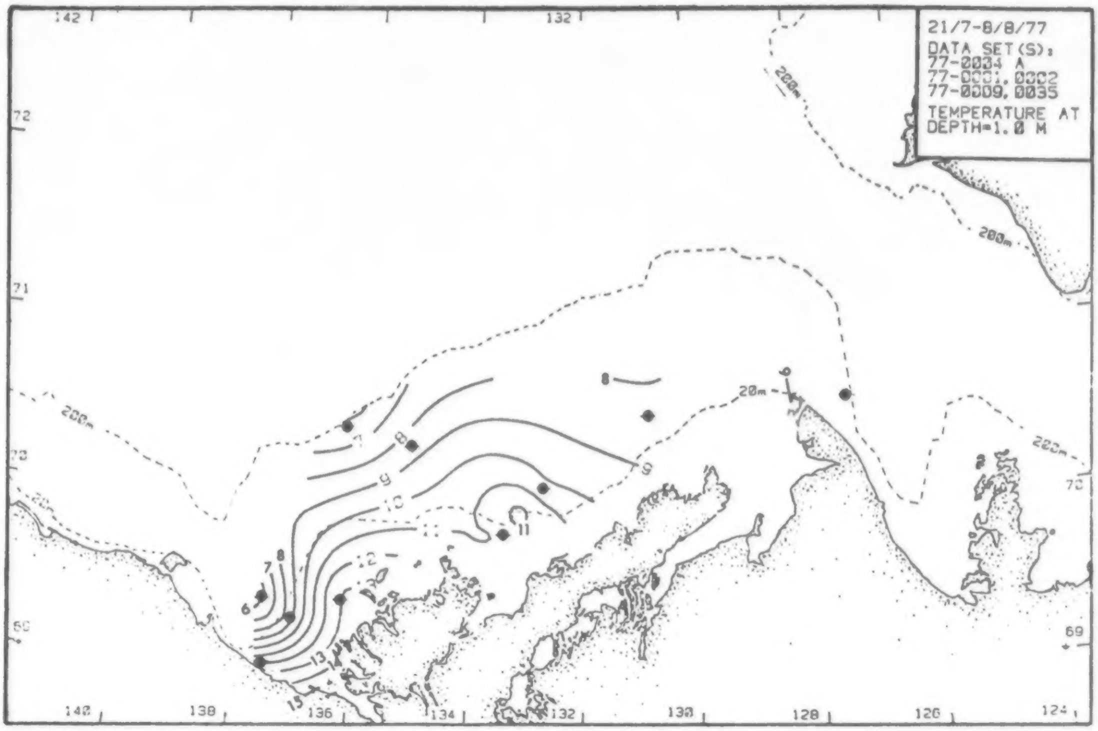
12
18
20
14
16
18
20

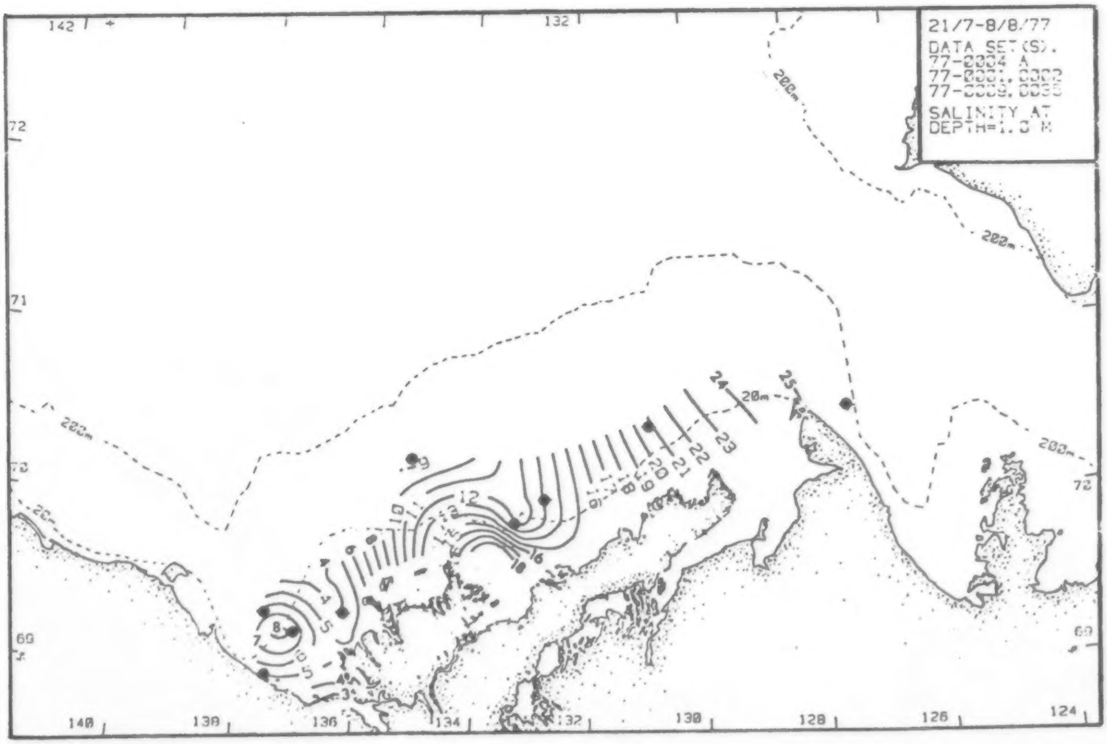

E: 2-9/9/75
DATA SET(S):
75-0009E
SALINITY AT
DEPTH=20.0
142
72
71
70
69
140
138
136
134
132
200m
20m
29.0
29.5
29.0
28.5
27.5
26
29.5
30.0


E: 29/9/75
TEMPERATURE AT
SALINITY=31.0
DATA SET(S):
75-0029E
142
72
70
200
-1.0
140
138
136
134
132


9-25/8/1976
15-16/8/1976
16-24/8/1976
DATA SET(S):
76-0001 A
76-0001 B
76-0020 C
TEMPERATURE AT
DEPTH=1.0
132
6
3
20m
7
6
134
132
130
128


9-25/8/1976
15-16/8/1976
16-24/8/1976
DATA SET(S):
76-0001 A
76-0001 B
76-0020 C
SALINITY AT
132
18
20
22
24
26
28
30
20
22
23
25
27
134
132
130
128


21/7-8/8/77
DATA SET(S):
77-0004 A
77-0001,0002
77-0009,0035
TEMPERATURE AT
DEPTH=1.0 M
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
6
7
8
9
10
11
12
13
15


21/7-8/8/77
DATA SET(S).
77-0004 A
77-0001,0002
77-0009,0035
SALINITY AT
DEPTH=1.0 M
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
3
4
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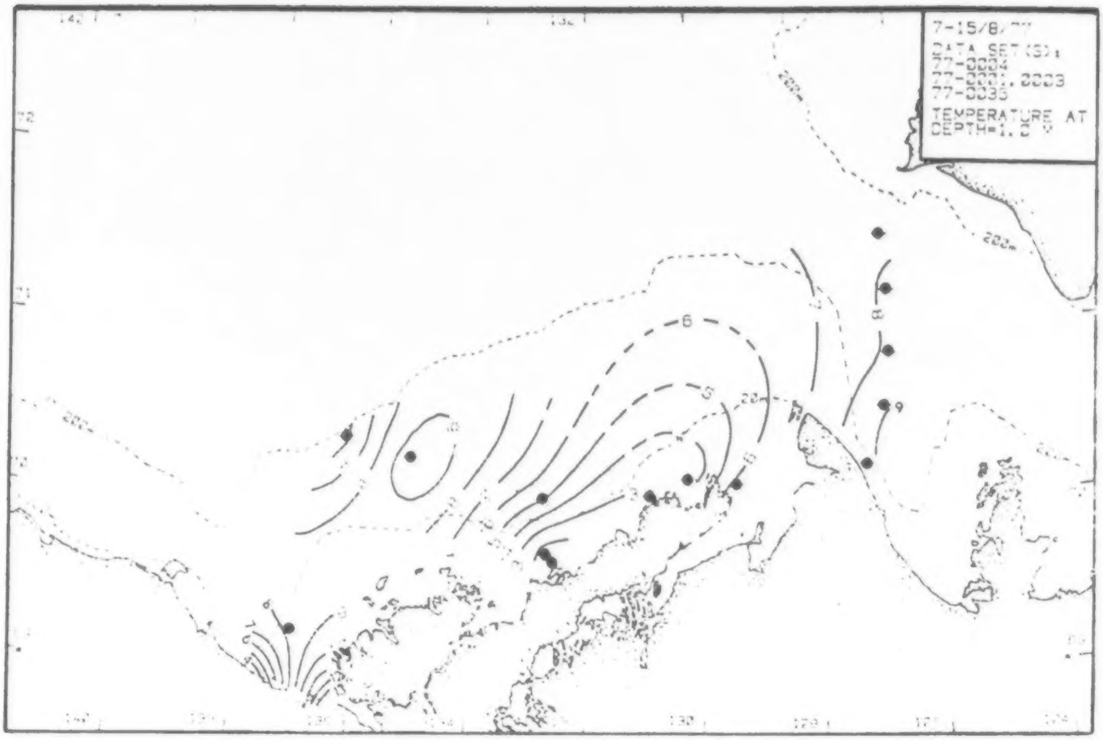
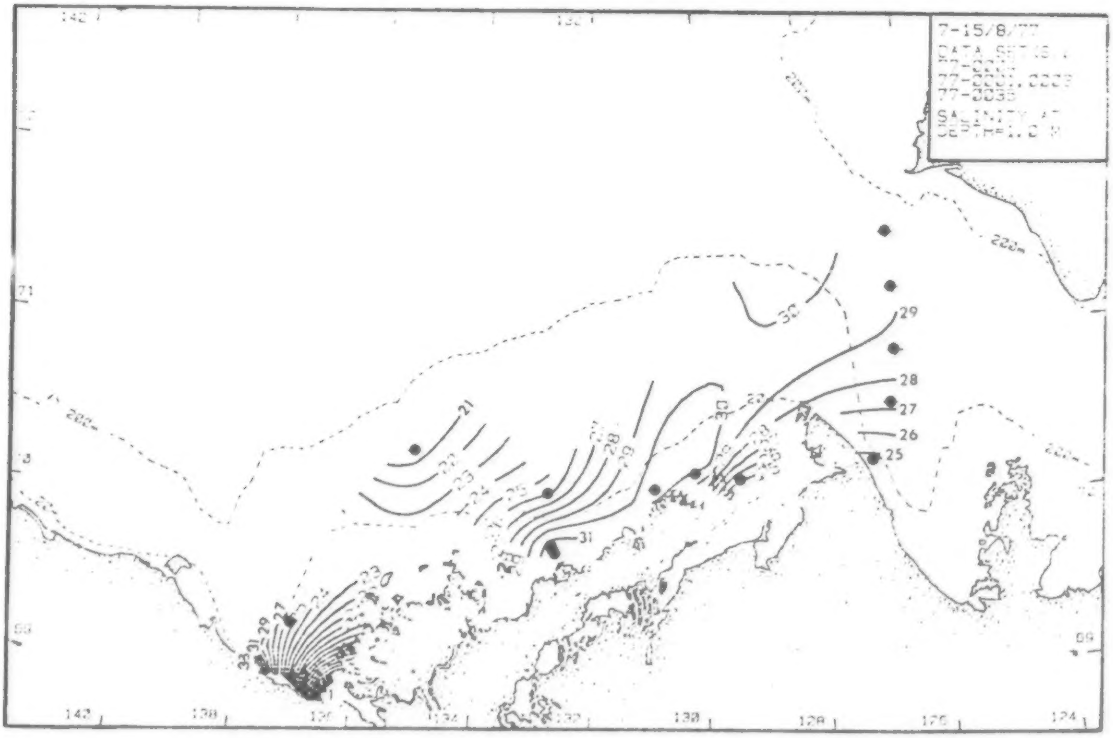
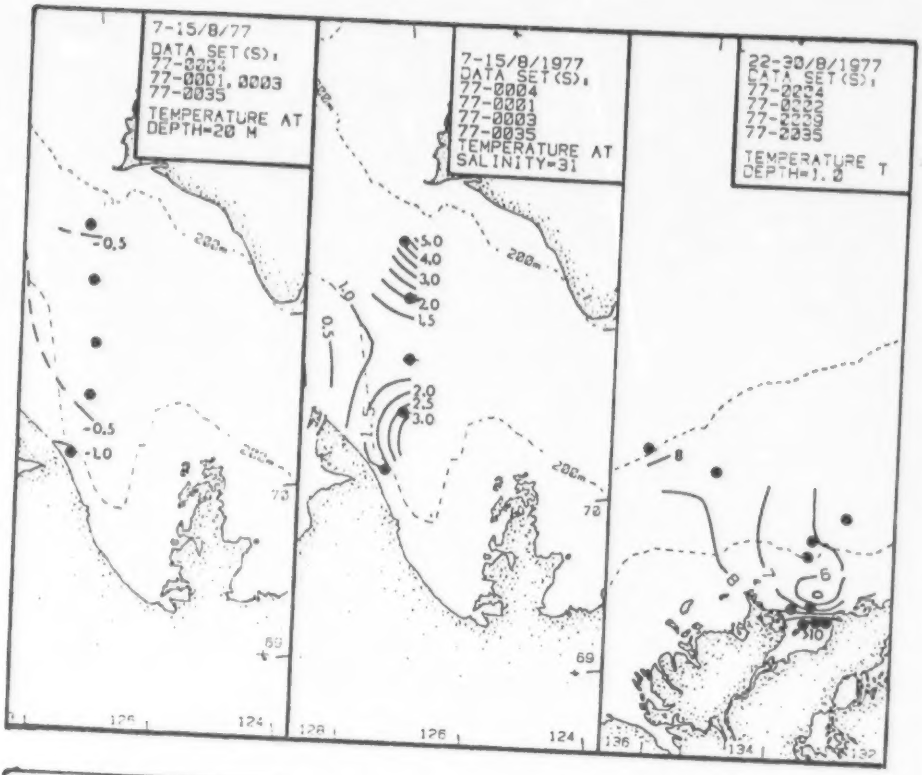
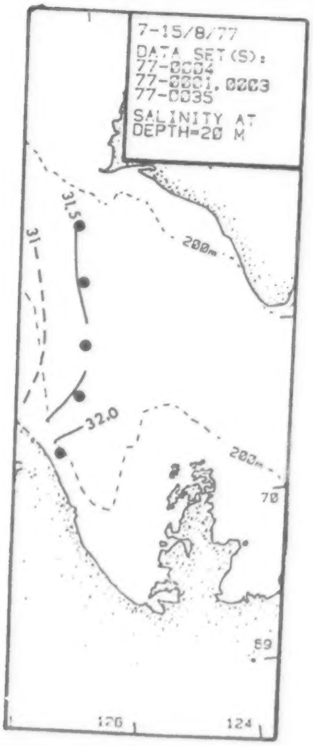
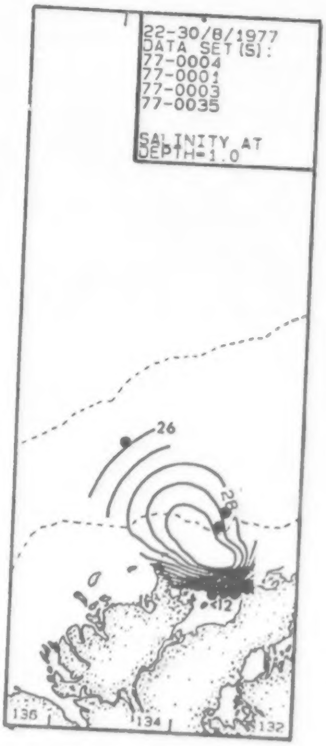
21
22
23
24
25


7-15/8/77
DATA SET(S):
77-0004
77-0001,0003
77-0035
TEMPERATURE AT
DEPTH=1.0 M
200m
6
5
8
9
7
142
138
136
134
132
130
128
126
124
72
71
70
69


7-15/8/77
DATA SET(S):
77-0004
77-0001,0003
77-0035
SALINITY AT
DEPTH=1.0 M
200m
30
29
28
27
26
25
21
22
23
24
31
33
142
138
136
134
132
130
128
126
124
71
70
69


7-15/8/77
DATA SET(S):
77-0004
77-0001,0003
77-0035
TEMPERATURE AT
DEPTH=20 M
-0.5
-0.5
-1.0
200m
70
69
126
124
7-15/8/1977
DATA SET(S):
77-0004
77-0001
77-0003
77-0035
TEMPERATURE AT
SALINITY=31
5.0
4.0
3.0
2.0
1.5
1.0
0.5
2.0
2.5
3.0
1.5
200m
70
69
128
126
124
22-30/8/1977
DATA SET(S):
77-0004
77-0002
77-0009
77-0035
TEMPERATURE T
DEPTH=1.0
8
8
7
6
>10
136
134
132


7-15/8/77
DATA SET(S):
77-0004
77-0001,0003
77-0035
SALINITY AT
DEPTH=20 M
31.5
31
32.0
200m
200m
70
69
126
124


22-30/8/1977
DATA SET(S):
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77-0001
77-0003
77-0035
SALINITY AT
DEPTH=1.0
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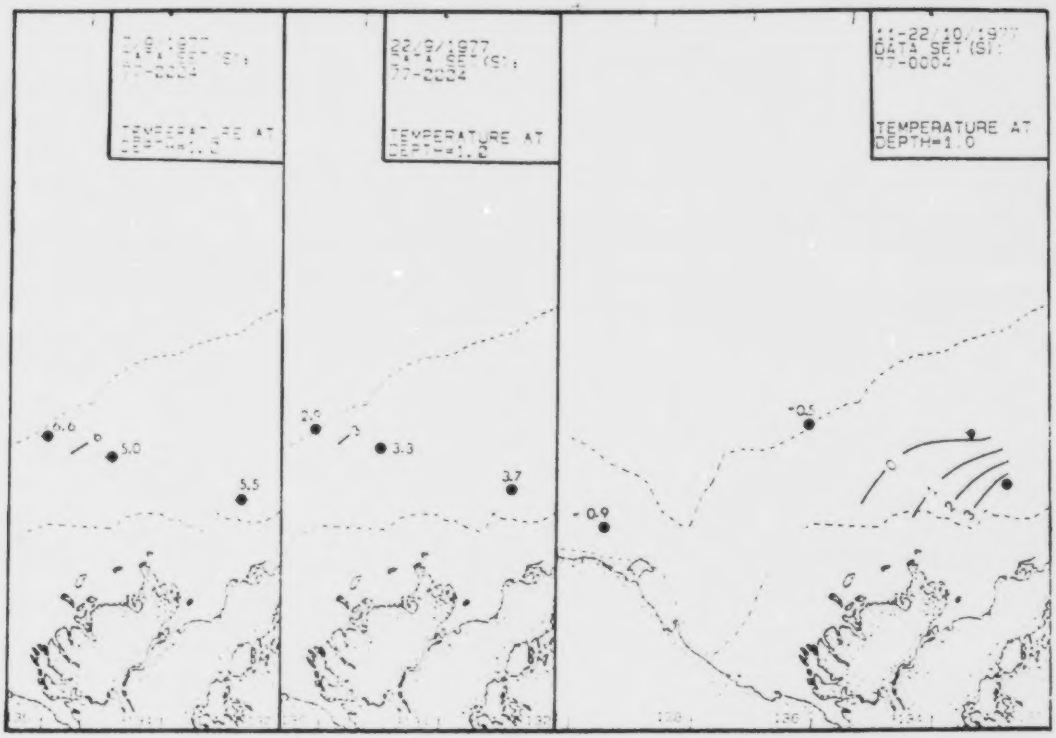
28
<12
136
134
132


22/9/1977
DATA SET(S):
77-2224
TEMPERATURE AT
DEPTH=1.0
11-22/10/1977
DATA SET(S):
77-0004
TEMPERATURE AT
DEPTH=1.0
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6
5.0
5.5
3.3
3.7
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-0.9
0
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3
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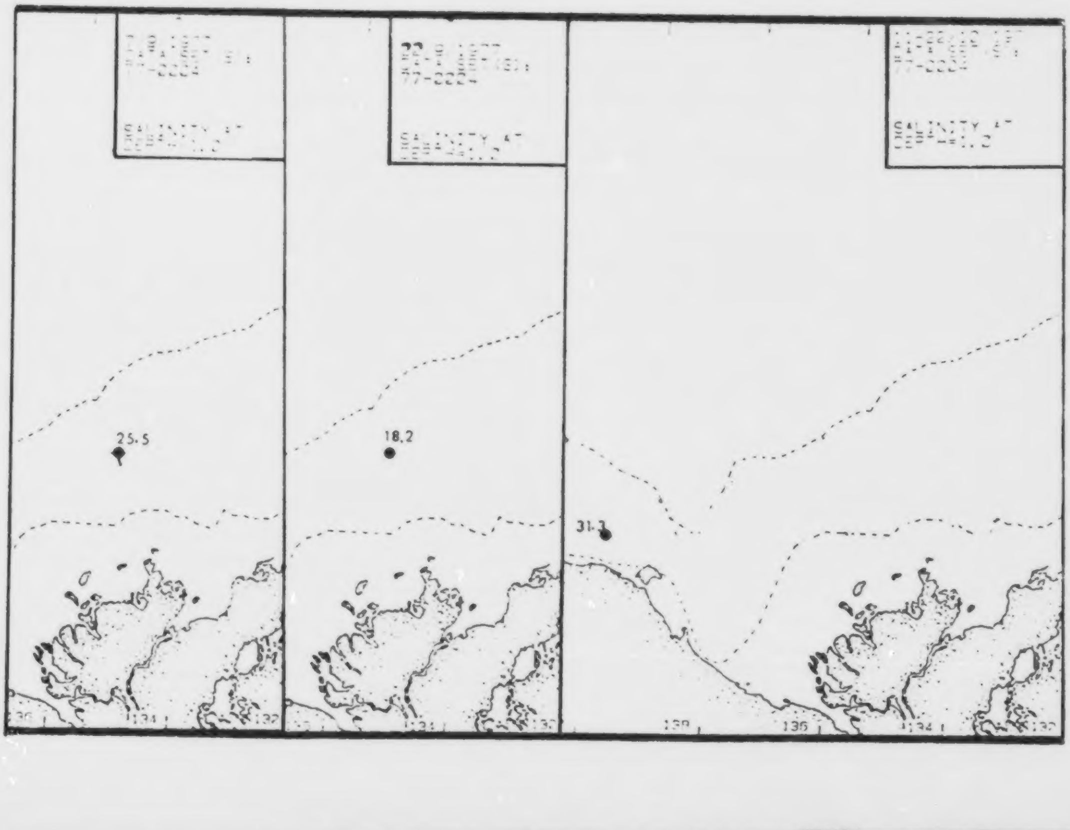
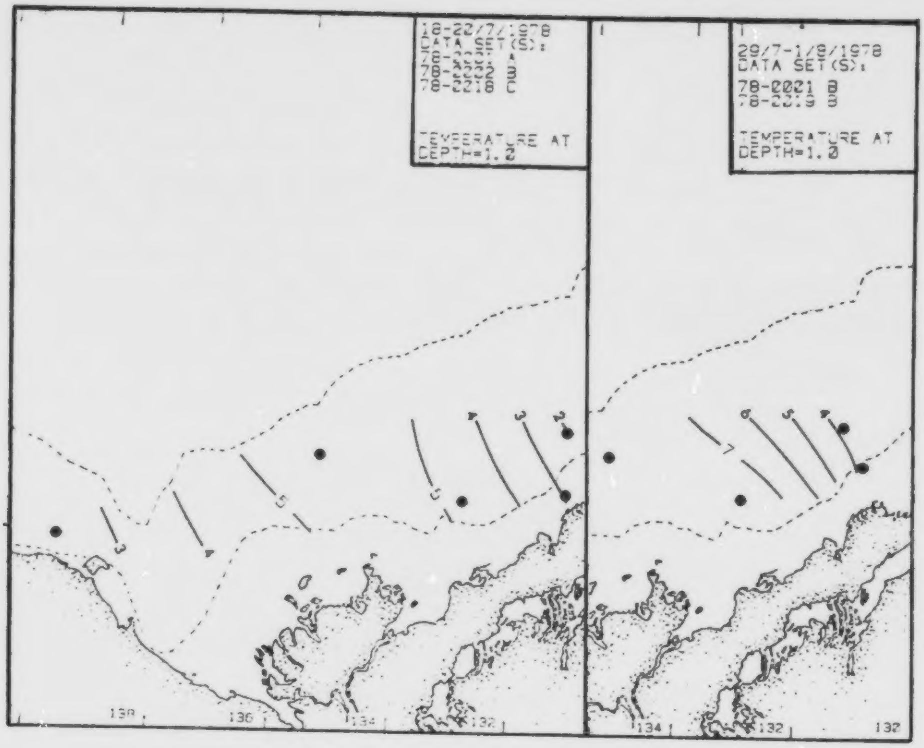
136
134
132


77-2224
SALINITY AT
25.5
18.2
31.3
138
136
134
132


18-22/7/1978
DATA SET(S):
78-2221 A
78-2222 B
78-2218 C
TEMPERATURE AT
DEPTH=1.2
29/7-1/8/1978
DATA SET(S):
78-2221 B
78-2219 B
TEMPERATURE AT
DEPTH=1.0
2
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4
5
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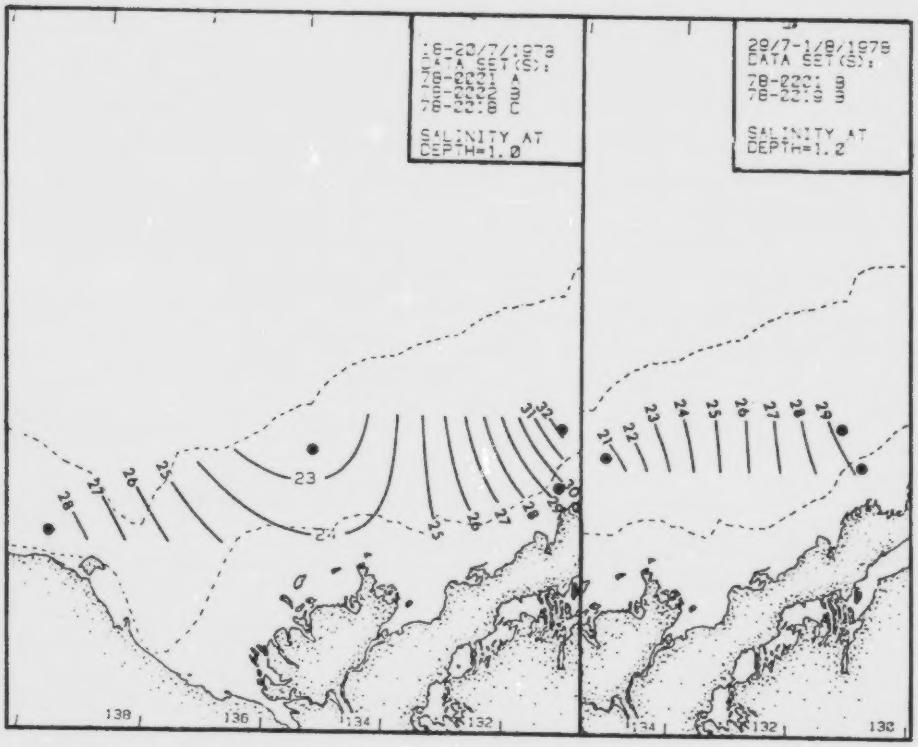
4
3
4
5
6
7
138
136
134
132
134
132
132


18-22/7/1978
DATA SET(S):
78-2221 A
78-2222 B
78-2218 C
SALINITY AT
DEPTH=1.0
29/7-1/8/1978
DATA SET(S):
78-2221 B
78-2219 B
SALINITY AT
DEPTH=1.2
28
27
26
25
23
24
25
26
27
28
29
30
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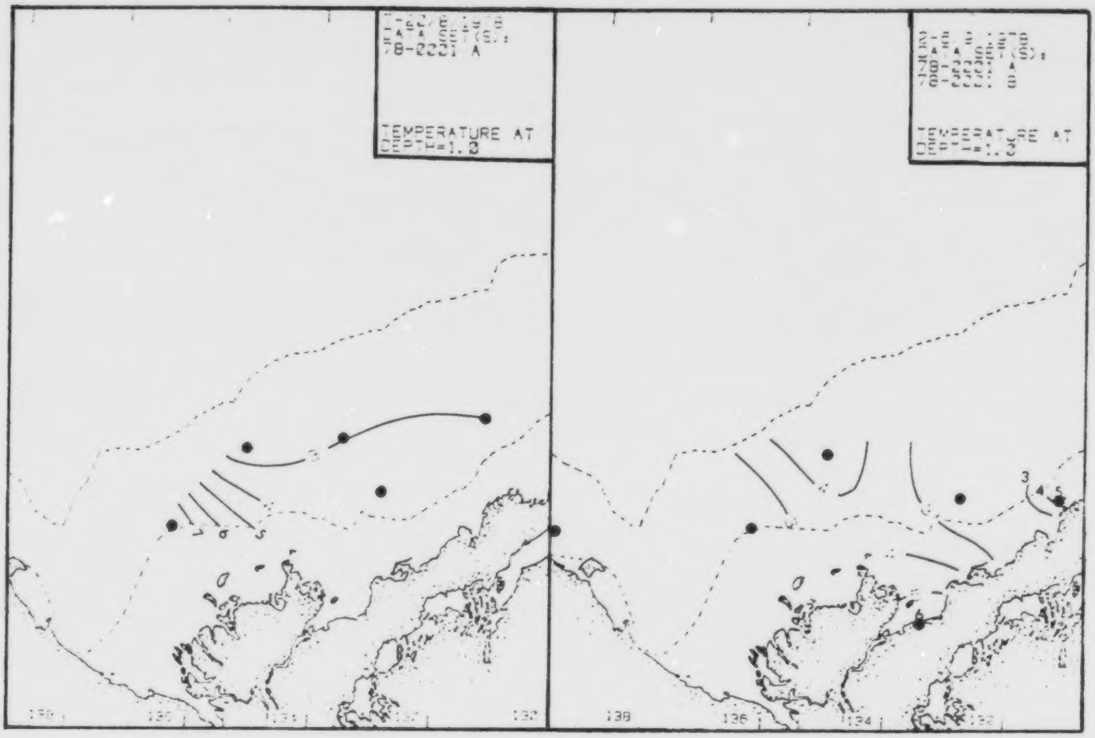
138
136
134
132
134
132
130

2 91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78-2221 A
TEMPERATURE AT
DEPTH=1.0
DATA SET(S):
78-2221 A
78-2221 B
TEMPERATURE AT
DEPTH=1.0
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4
5
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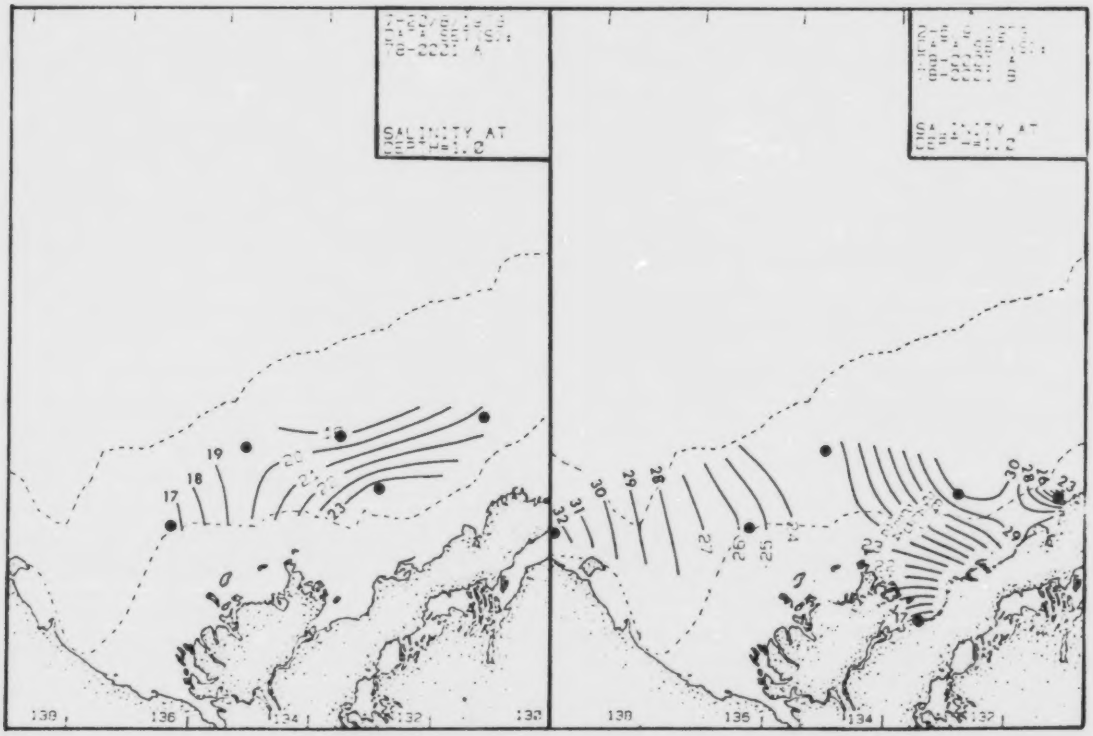
136
134
132
130


DATA SET(S):
78-2221 A
SALINITY AT
DEPTH=1.0
DATA SET(S):
78-2221 A
78-2221 B
SALINITY AT
DEPTH=1.0
17
18
19
20
21
23
32
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29
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132
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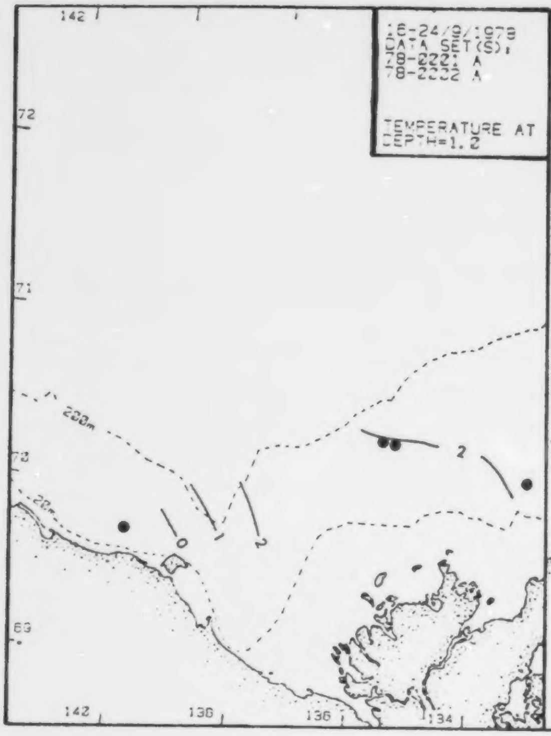
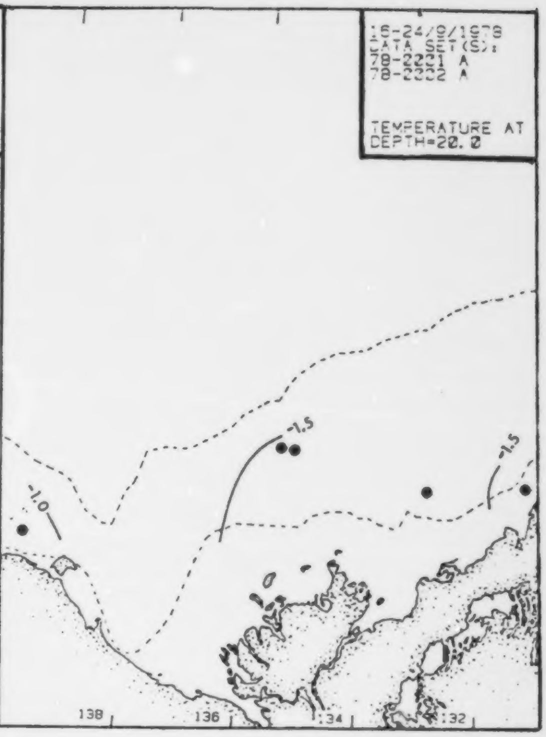

16-24/9/1978
DATA SET(S);
78-2221 A
78-2222 A
TEMPERATURE AT
DEPTH=1.2
142
72
71
70
69
200m
20m
0
1
2
2
142
138
136
134


16-24/9/1978
DATA SET(S);
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78-2222 A
TEMPERATURE AT
DEPTH=20.0
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-1.5
-1.0
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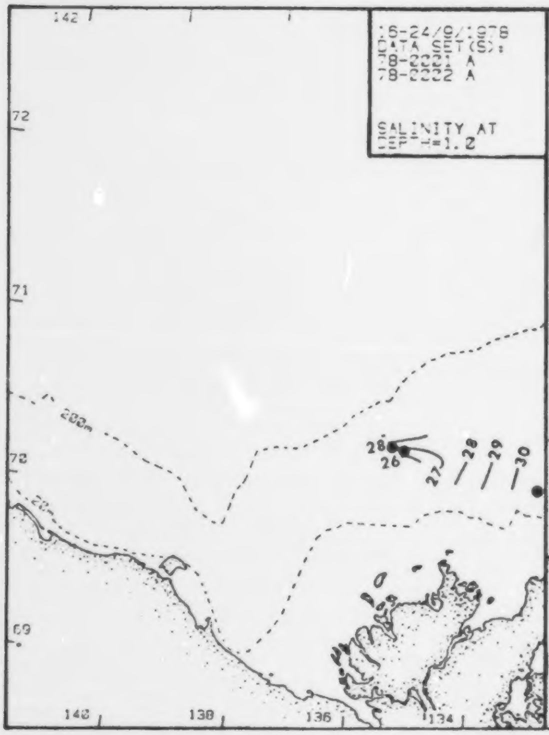
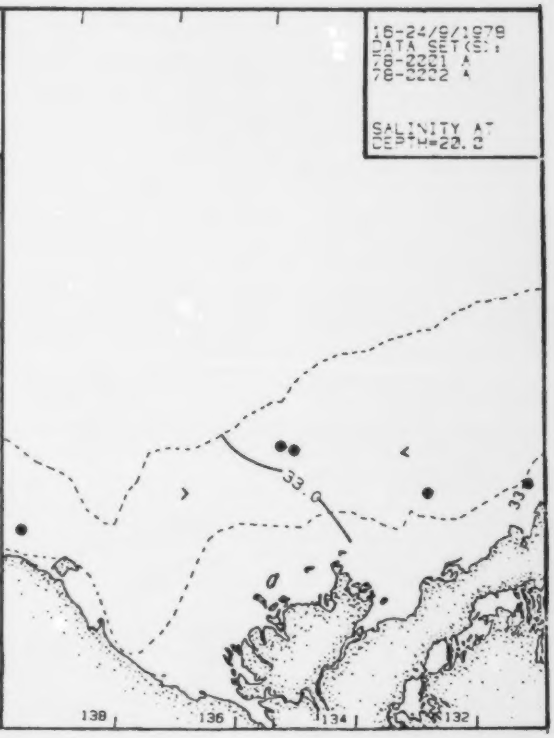
136
134
132


16-24/9/1978
DATA SET(S);
78-2221 A
78-2222 A
SALINITY AT
DEPTH=1.2
142
72
71
70
69
200m
20m
28
26
27
28
29
30
142
138
136
134


16-24/9/1978
DATA SET(S):
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78-2222 A
SALINITY AT
DEPTH=20.0
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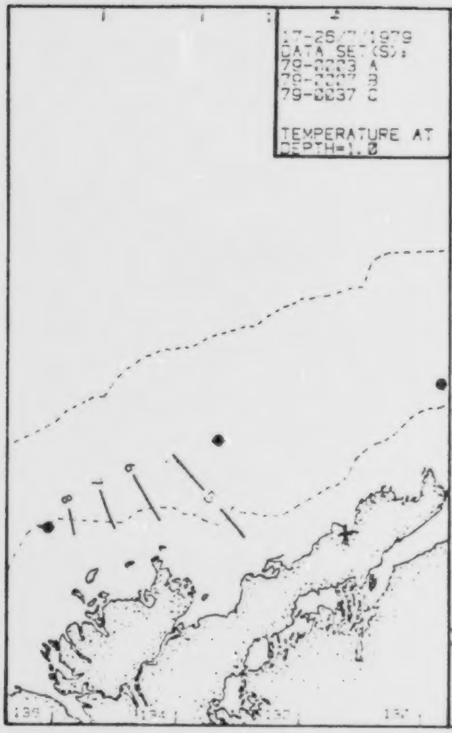
136
134
132


17-26/7/1979
DATA SET(S):
79-0003 A
79-0007 B
79-0037 C
TEMPERATURE AT
DEPTH=1.0
8
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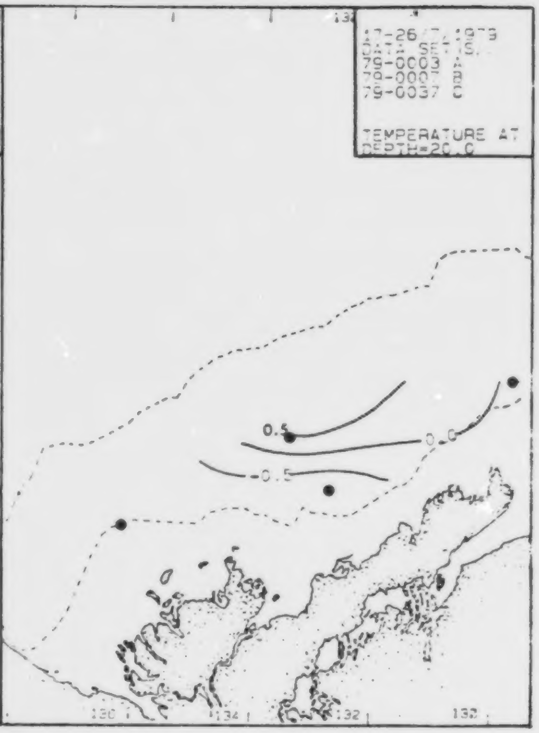
134
132
130


17-26/7/1979
DATA SET(S):
79-0003 A
79-0007 B
79-0037 C
TEMPERATURE AT
DEPTH=20.0
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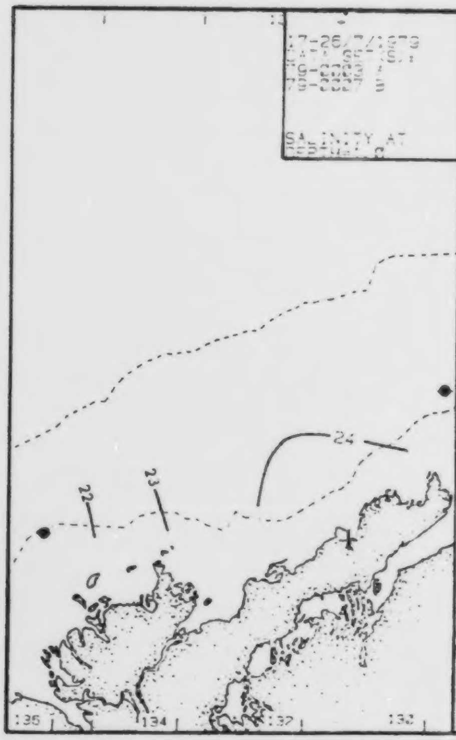
-0.5
132
136
134
132
130


17-26/7/1979
DATA SET(S):
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79-0007 B
SALINITY AT
DEPTH=1.0
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22
136
134
132
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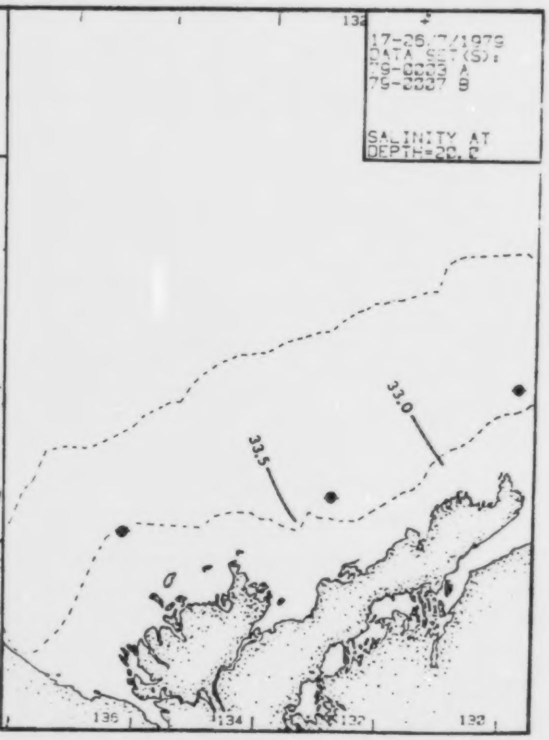
17-26/7/1979
DATA SET(S):
79-0003 A
79-0007 B
SALINITY AT
DEPTH=20.0
33.0
33.5
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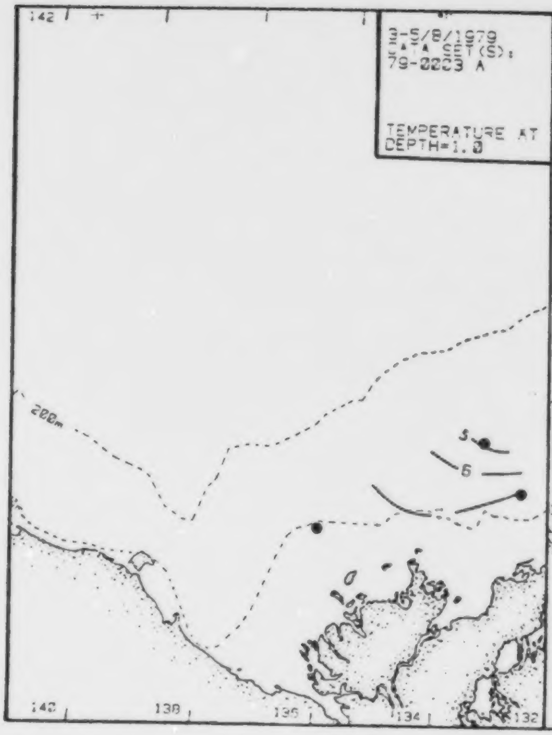
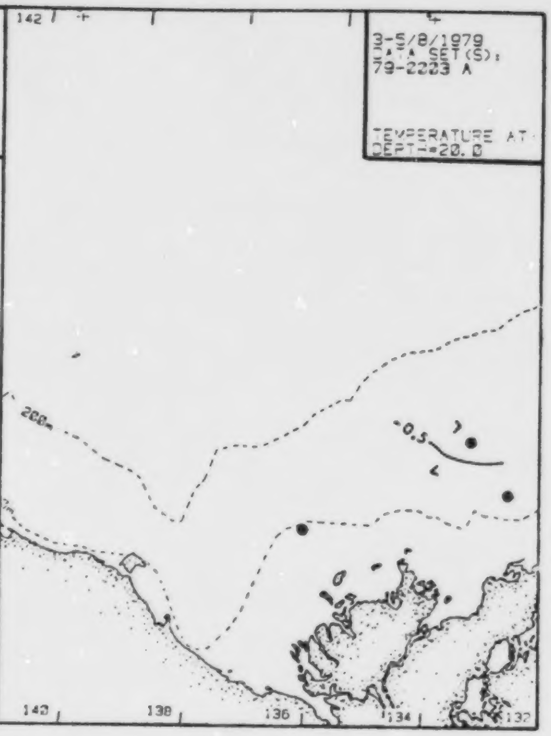
136
134
132
130


142
3-5/8/1979
DATA SET(S):
79-2223 A
TEMPERATURE AT
DEPTH=1.0
200m
5
6
140
138
136
134
132


142
3-5/8/1979
DATA SET(S):
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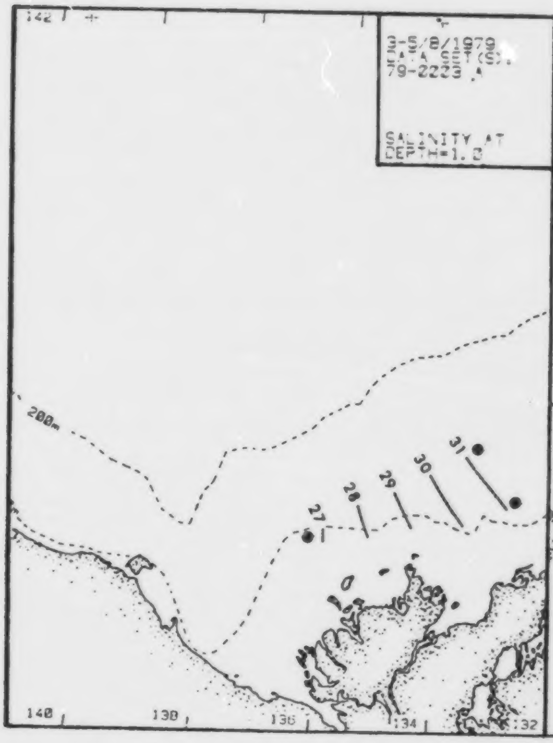
TEMPERATURE AT
DEPTH=20.0
200m
-0.5
7
<
140
138
136
134
132


142
3-5/8/1979
DATA SET(S):
79-2223 A
SALINITY AT
DEPTH=1.0
200m
27
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29
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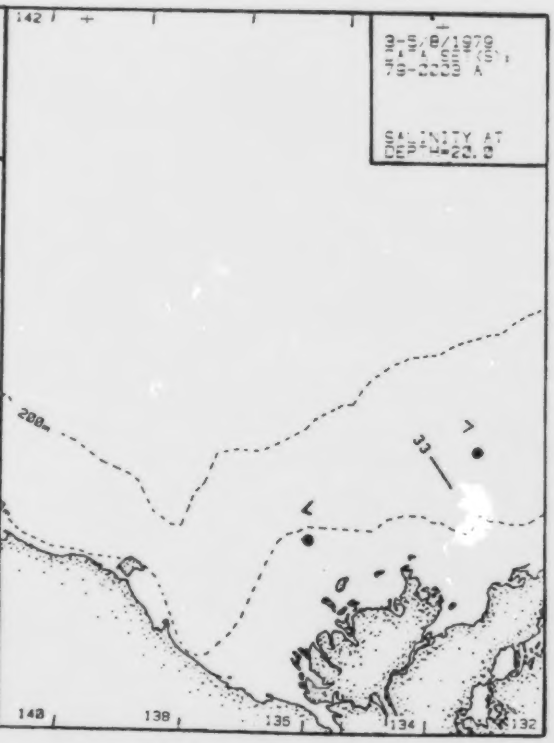
140
138
136
134
132


142
3-5/8/1979
DATA SET(S):
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SALINITY AT
DEPTH=20.0
200m
33
7
<
140
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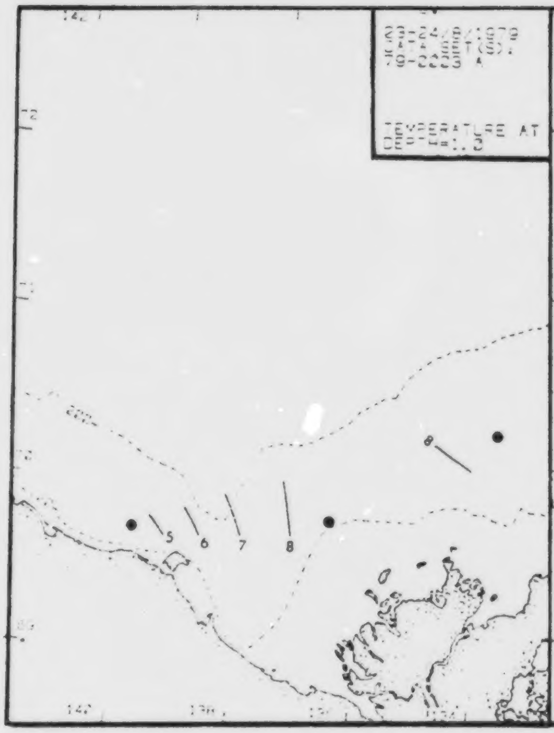
136
134
132


23-24/8/1979
DATA SET(S):
79-2223 A
TEMPERATURE AT
DEPTH=1.0
142
72
71
70
69
200m
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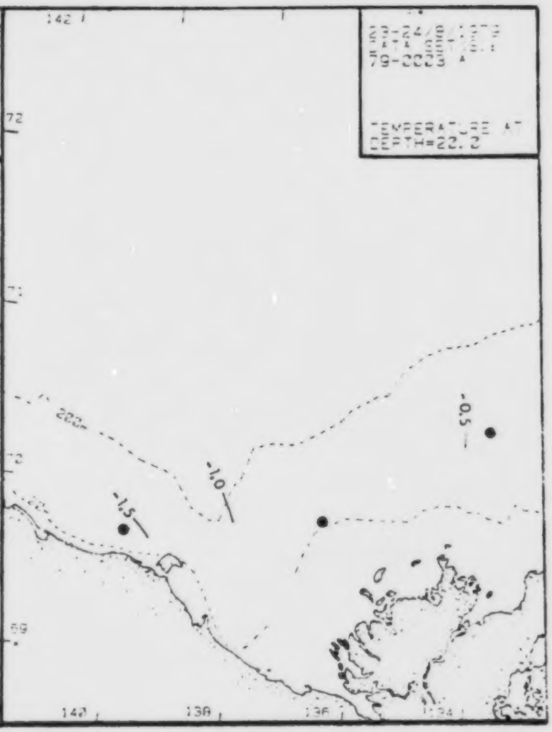
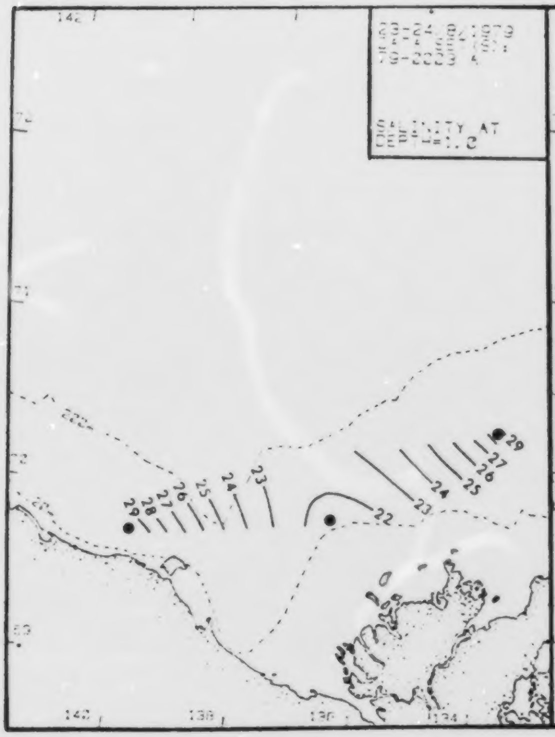
136
134


23-24/8/1979
DATA SET(S):
79-2223 A
TEMPERATURE AT
DEPTH=22.0
142
72
71
70
69
200m
-1.5
-1.0
-0.5
140
138
136
134


23-24/8/1979
DATA SET(S):
79-2223 A
SALINITY AT
DEPTH=1.0
142
72
71
70
69
200m
29
28
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26
25
24
23
22
23
24
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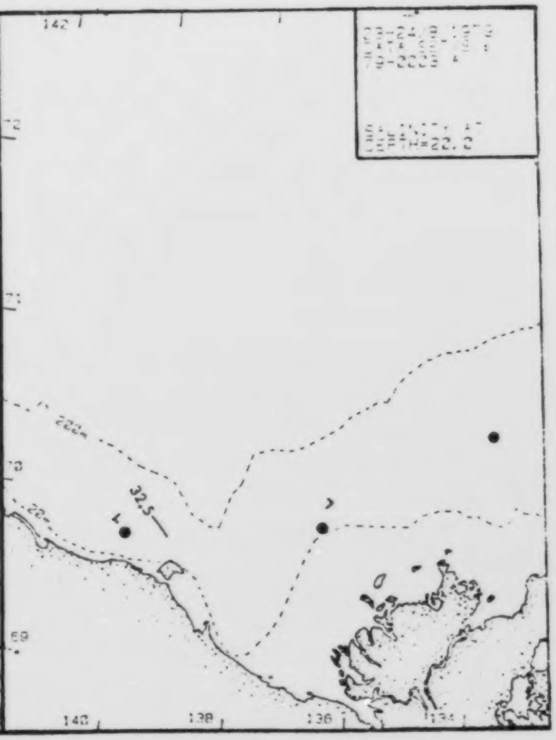
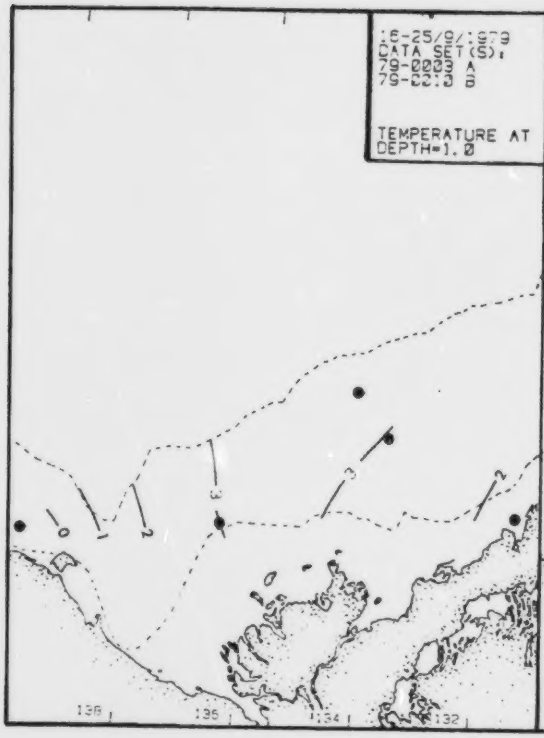
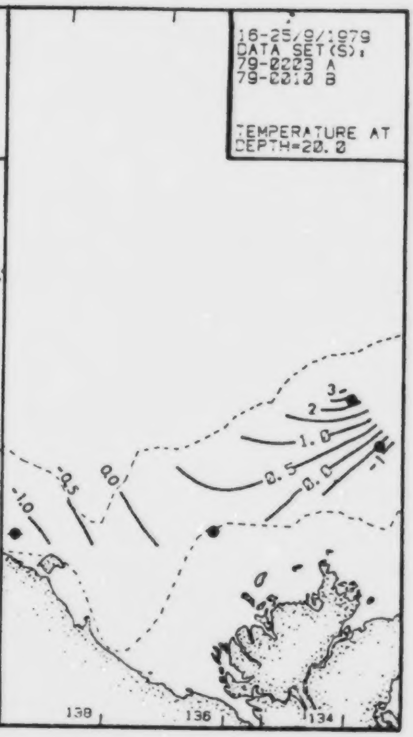
29
140
138
136
134


23-24/8/1979
DATA SET(S):
79-2223 A
SALINITY AT
DEPTH=22.0
142
72
71
70
69
200m
32.5
140
138
136
134


16-25/9/1979
DATA SET(S):
79-0003 A
79-0010 B
TEMPERATURE AT
DEPTH=1.0
0
1
2
3
3
2
138
136
134
132


16-25/9/1979
DATA SET(S):
79-0223 A
79-0010 B
TEMPERATURE AT
DEPTH=20.0
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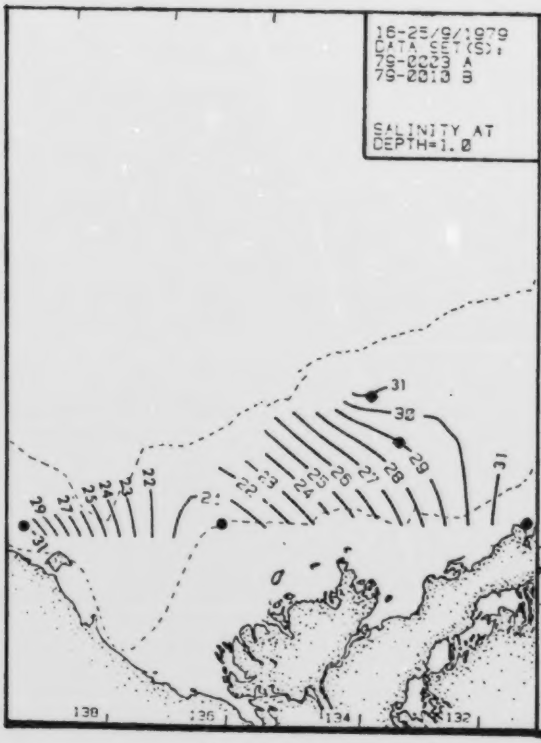
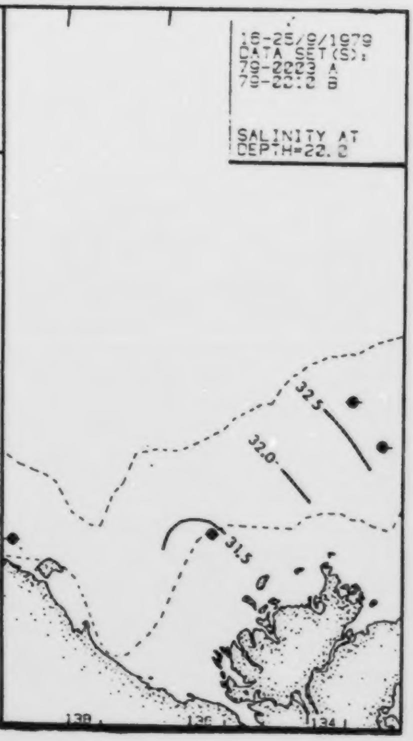
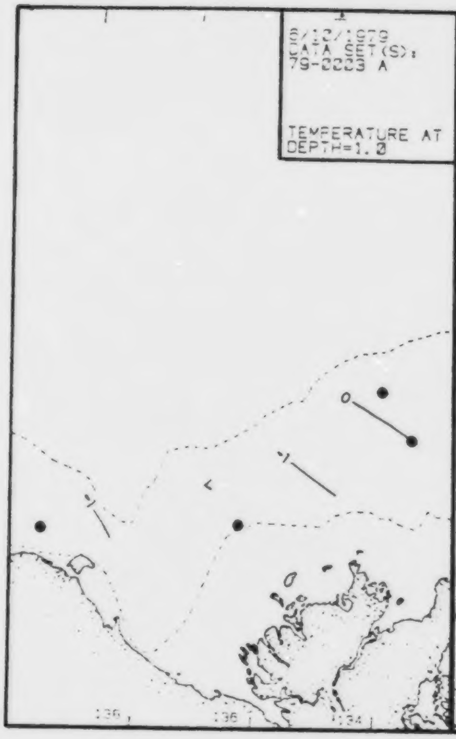
2
1.0
0.5
0.0
-1
-1.0
-0.5
0.0
138
136
134


16-25/9/1979
DATA SET(S):
79-0223 A
79-0010 B
SALINITY AT
DEPTH=1.0
31
30
29
31
28
27
26
25
24
23
22
21
22
23
24
25
27
29
31
138
136
134
132


16-25/9/1979
DATA SET(S):
79-2223 A
79-0010 B
SALINITY AT
DEPTH=20.0
32.5
32.0
31.5
138
136
134


6/12/1979
DATA SET(S):
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TEMPERATURE AT
DEPTH=1.0
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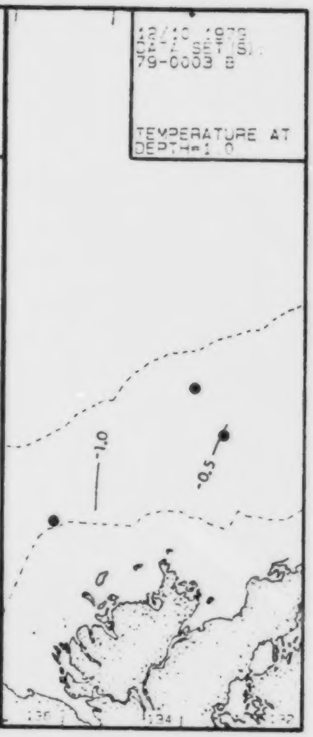
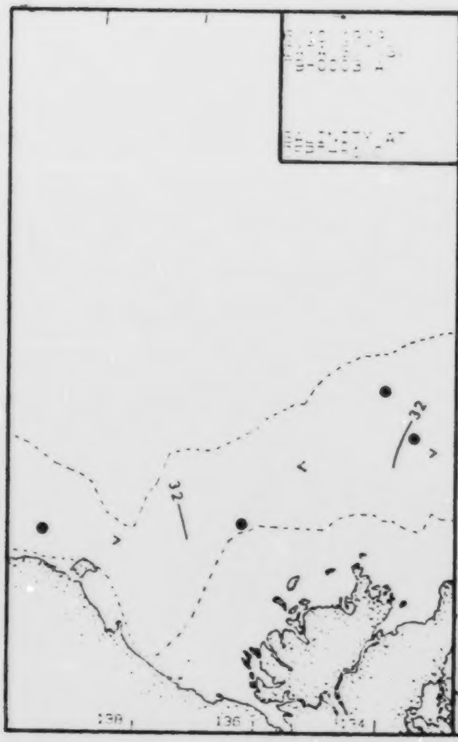
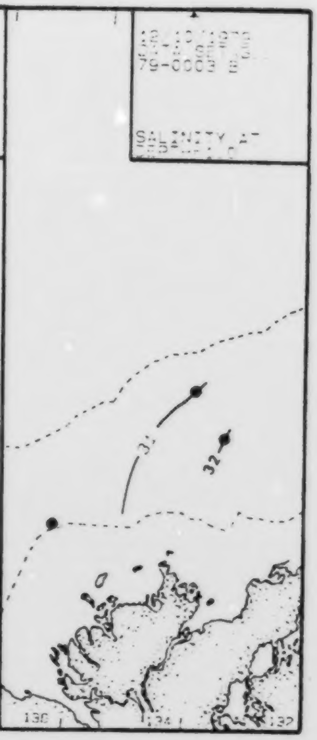
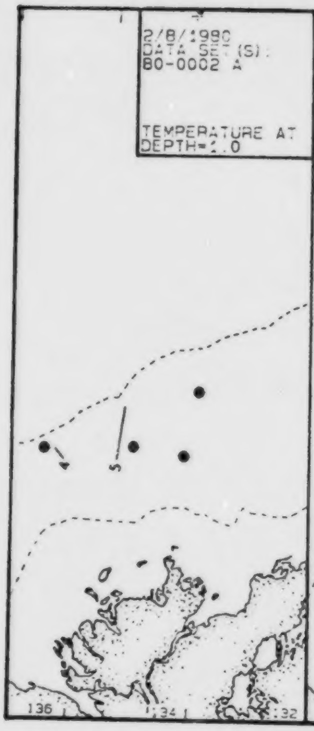
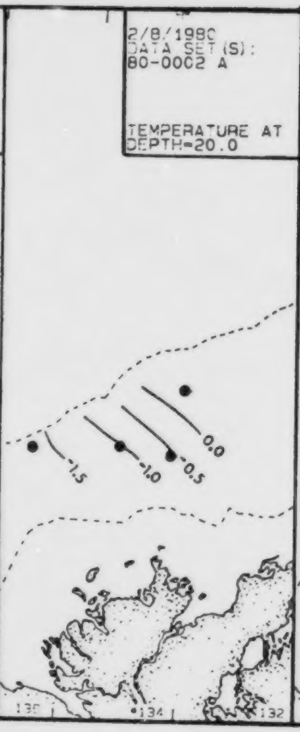
-1
-1
138
136
134

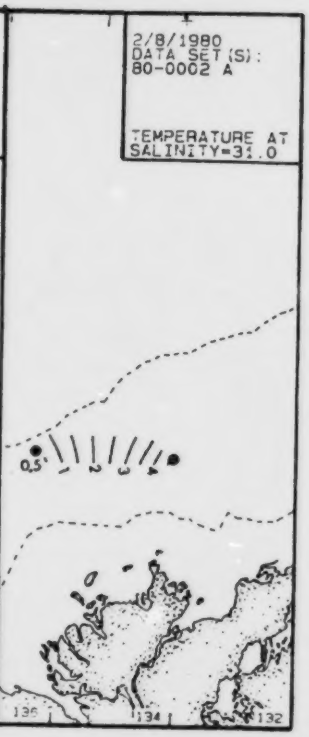

12/10/1979
DATA SET(S):
79-0003 B
TEMPERATURE AT
DEPTH=1.0
-1.0
-0.5
136
134
132

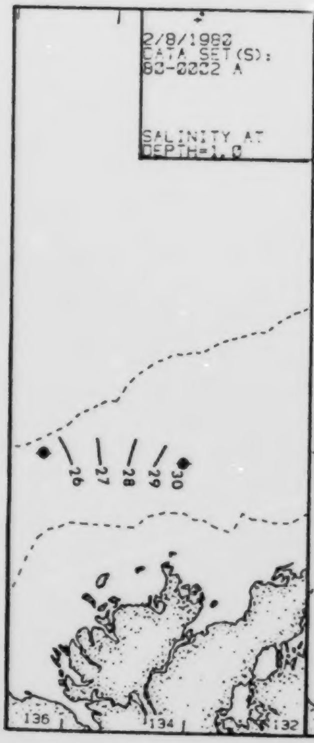

79-0003 A
SALINITY AT
32
32
138
136
134

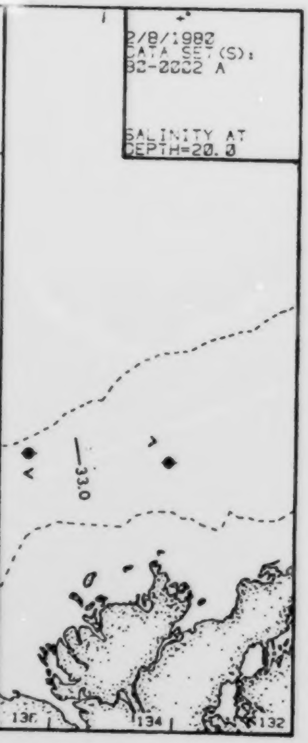

12/10/1979
79-0003 B
SALINITY AT
31
32
136
134
132

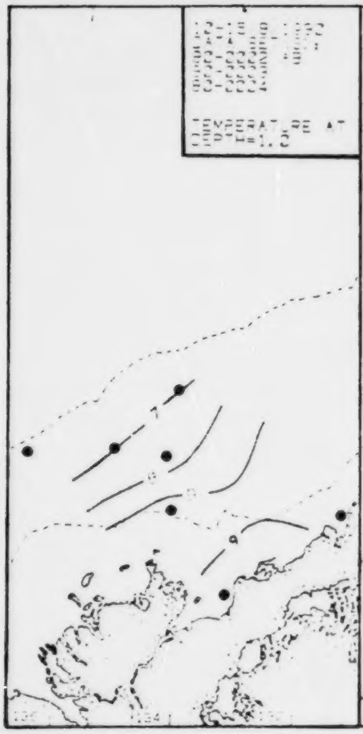

2/8/1980
DATA SET(S):
80-0002 A
TEMPERATURE AT
DEPTH=1.0
4
5
136
134
132

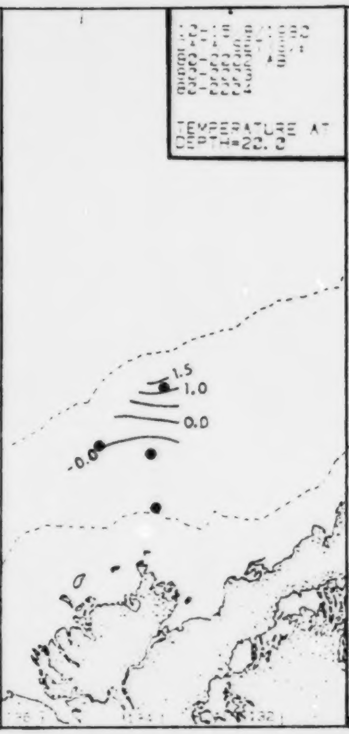

2/8/1980
DATA SET(S):
80-0002 A
TEMPERATURE AT
DEPTH=20.0
0.0
-1.5
-1.0
0.5
136
134
132

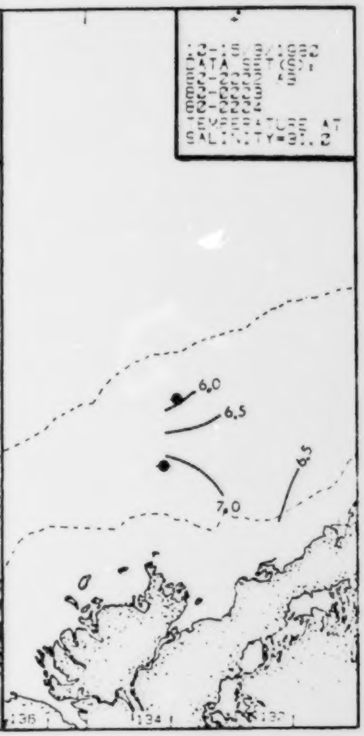

2/8/1980
DATA SET(S):
80-0002 A
TEMPERATURE AT
SALINITY=31.0
0.5
1
2
3
4
136
134
132

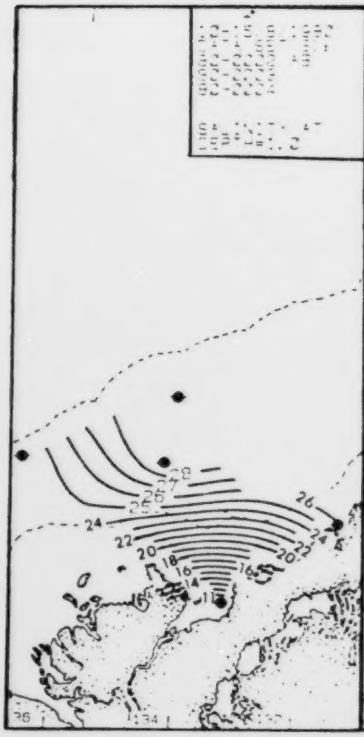

2/8/1980
DATA SET(S):
80-0002 A
SALINITY AT
DEPTH=1.0
26
27
28
29
30
136
134
132


2/8/1980
DATA SET(S):
80-0002 A
SALINITY AT
DEPTH=20.0
33.0
136
134
132


12-15/8/1982
DATA SET(S):
82-2222 AB
82-2223
82-2224
TEMPERATURE AT
DEPTH=1.0
7
8
8
9
136
134
132


12-15/8/1982
DATA SET(S):
82-2222 AB
82-2223
82-2224
TEMPERATURE AT
DEPTH=22.0
1.5
1.0
0.0
-0.0
136
134
132


12-15/8/1982
DATA SET(S):
82-2222 AB
82-2223
82-2224
TEMPERATURE AT
SALINITY=31.0
6.0
6.5
6.5
7.0
136
134
132


12-15/8/1982
DATA SET(S):
82-2222 AB
82-2223
82-2224
SALINITY AT
DEPTH=1.0
28
27
26
25
24
22
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16
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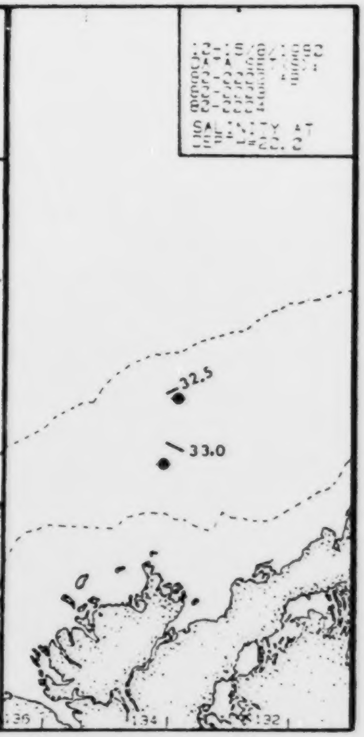
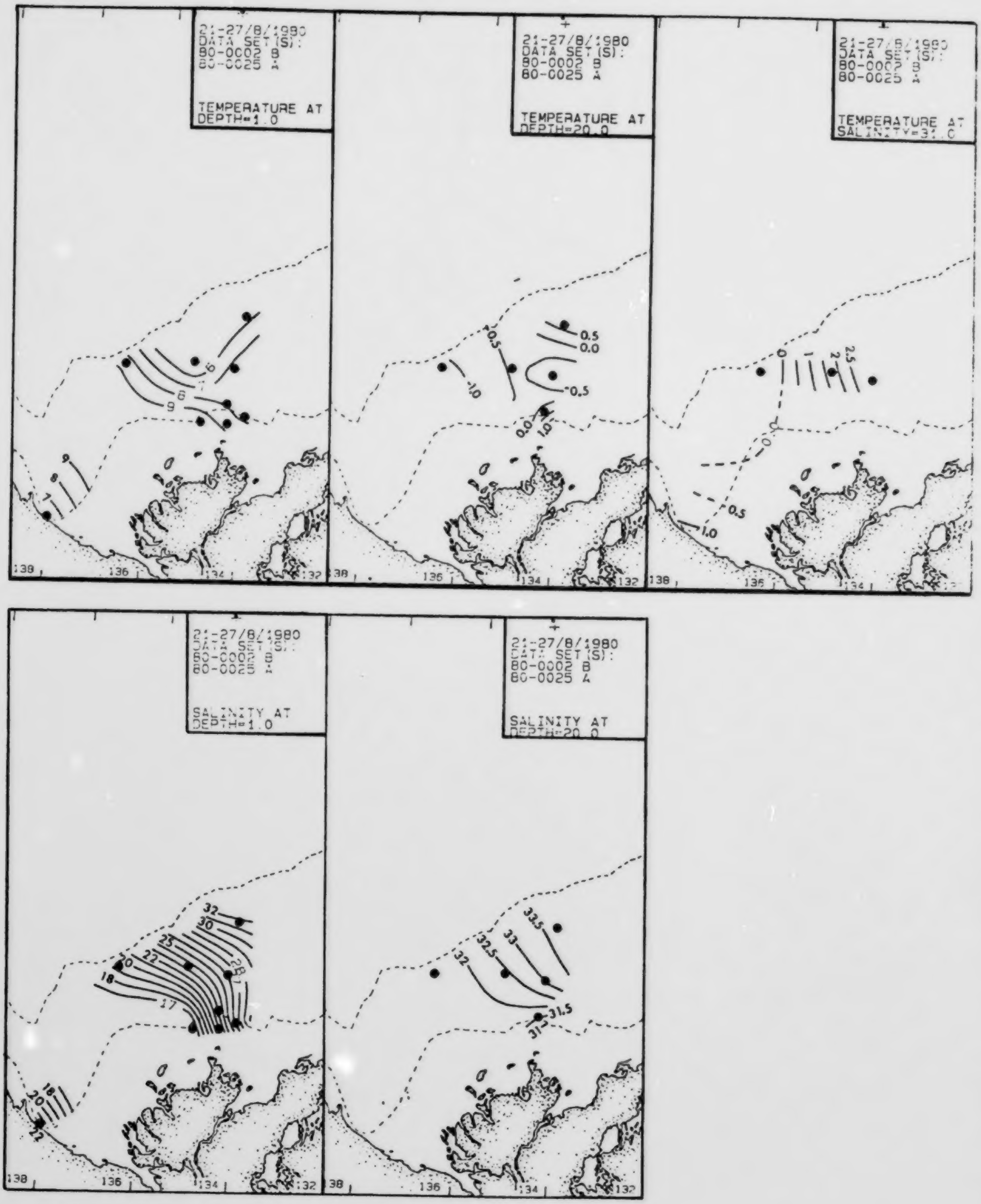
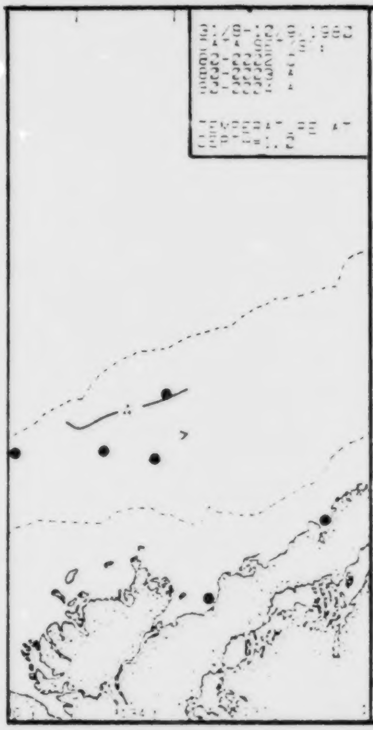
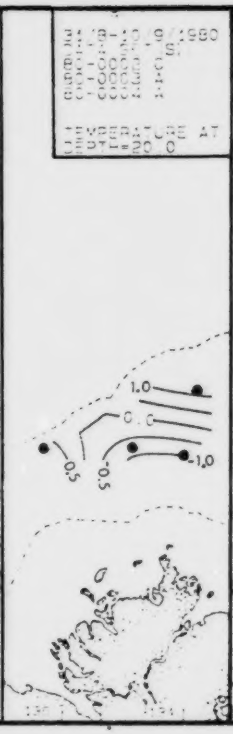
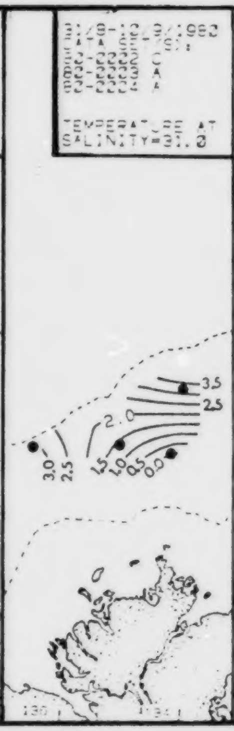
24
22
20
16
136
134
132


12-15/8/1982
DATA SET(S):
82-2222 AB
82-2223
82-2224
SALINITY AT
DEPTH=22.0
32.5
33.0
136
134
132


21-27/8/1980
DATA SET(S):
80-0002 B
80-0025 A
TEMPERATURE AT
DEPTH=1.0
21-27/8/1980
DATA SET(S):
80-0002 B
80-0025 A
TEMPERATURE AT
DEPTH=20.0
21-27/8/1980
DATA SET(S):
80-0002 B
80-0025 A
TEMPERATURE AT
SALINITY=31.0
21-27/8/1980
DATA SET(S):
80-0002 B
80-0025 A
SALINITY AT
DEPTH=1.0
21-27/8/1980
DATA SET(S):
80-0002 B
80-0025 A
SALINITY AT
DEPTH=20.0
138
136
134
132
6
8
9
7
0.5
0.0
-0.5
-1.0
1.0
2
2.5
32
30
25
22
20
18
17
28
33.5
33
32.5
31.5
31


31/8-12/9/1982
DATA SET(S):
TEMPERATURE AT
DEPTH=1.0
134


31/8-10/9/1980
80-0003
80-0004
TEMPERATURE AT
DEPTH=20.0
1.0
0.0
-0.5
-0.5
-1.0
136
134


31/8-12/9/1982
DATA SET(S):
TEMPERATURE AT
SALINITY=31.0
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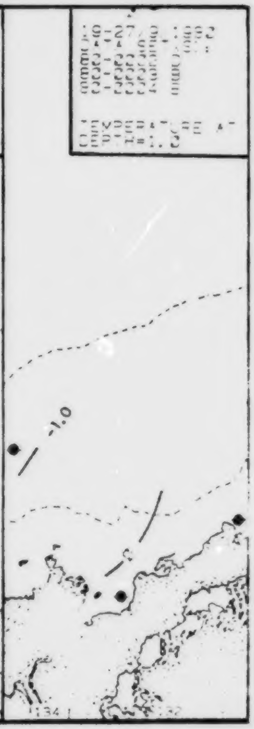
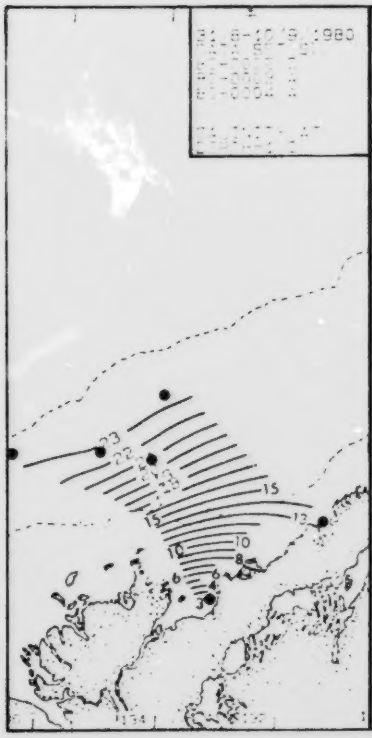
2.5
2.0
3.0
2.5
1.5
1.0
0.5
0.0
136
134


18-27/9/1982
DATA SET(S):
TEMPERATURE AT
DEPTH=1.0
-1.0
134
132


31/8-10/9/1980
80-0004
SALINITY AT
23
22
15
15
13
10
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8
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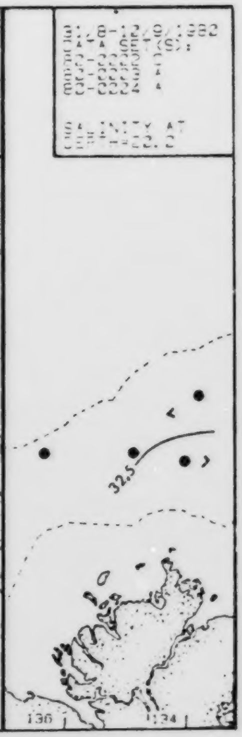
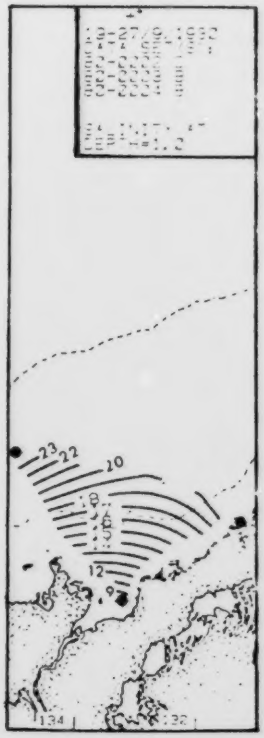
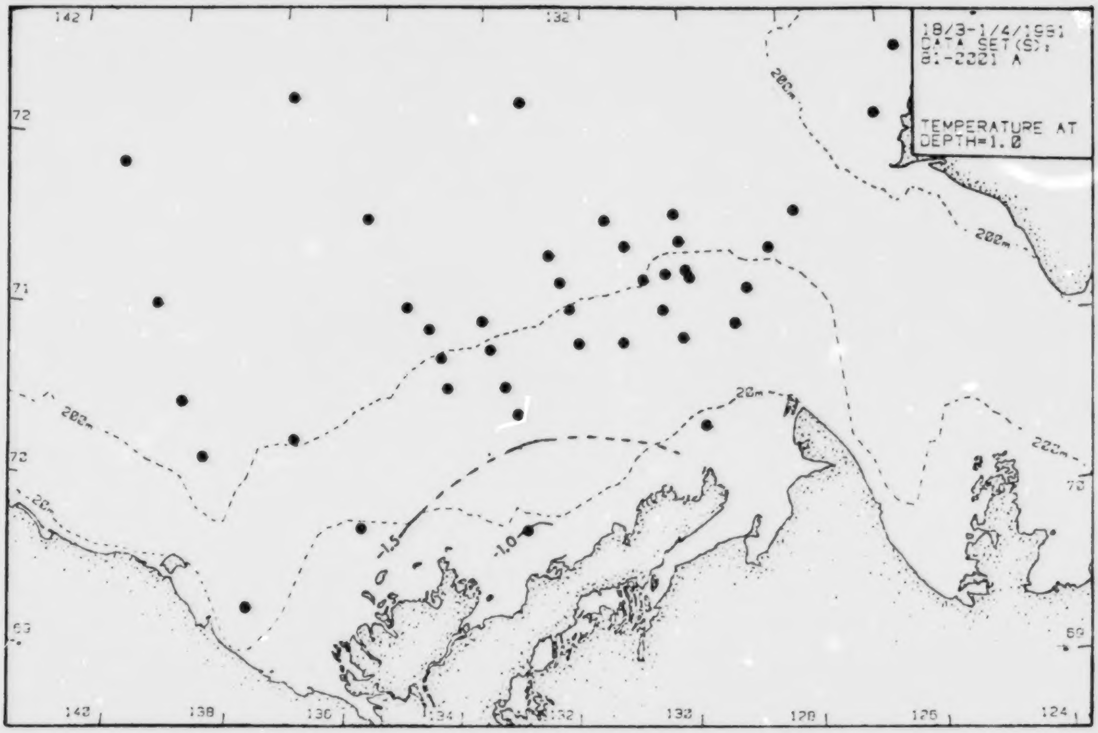
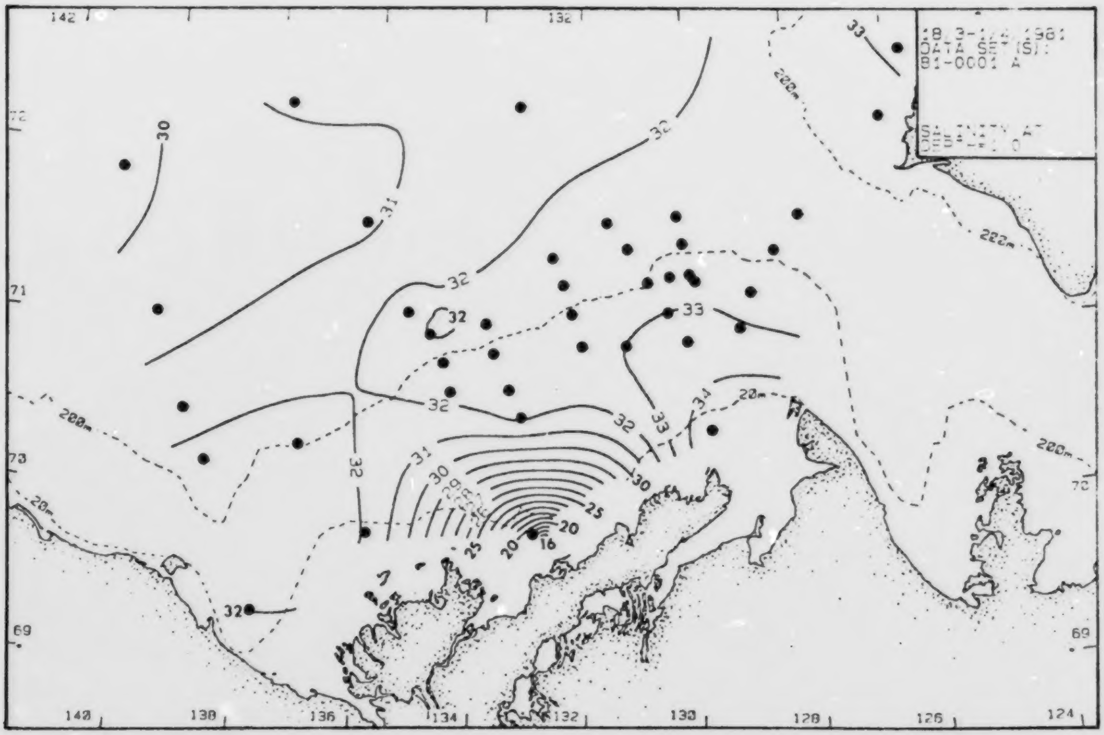
6
3
134
132

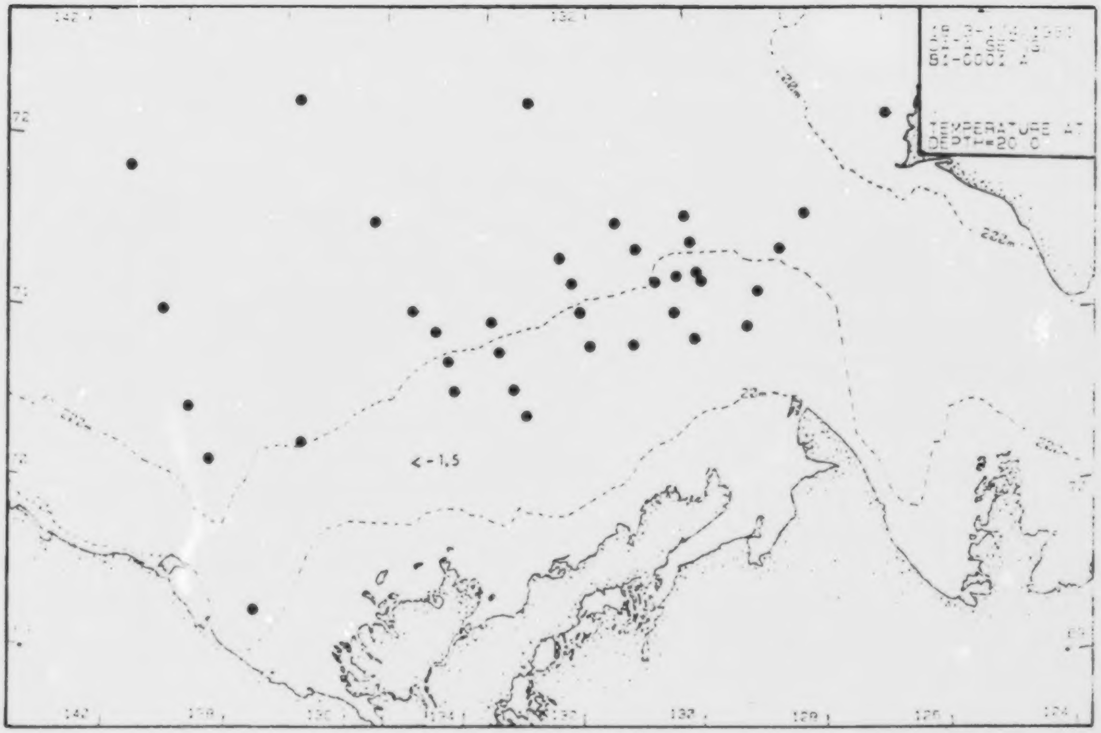

31/8-12/9/1982
DATA SET(S):
SALINITY AT
DEPTH=20.0
32.5
136
134

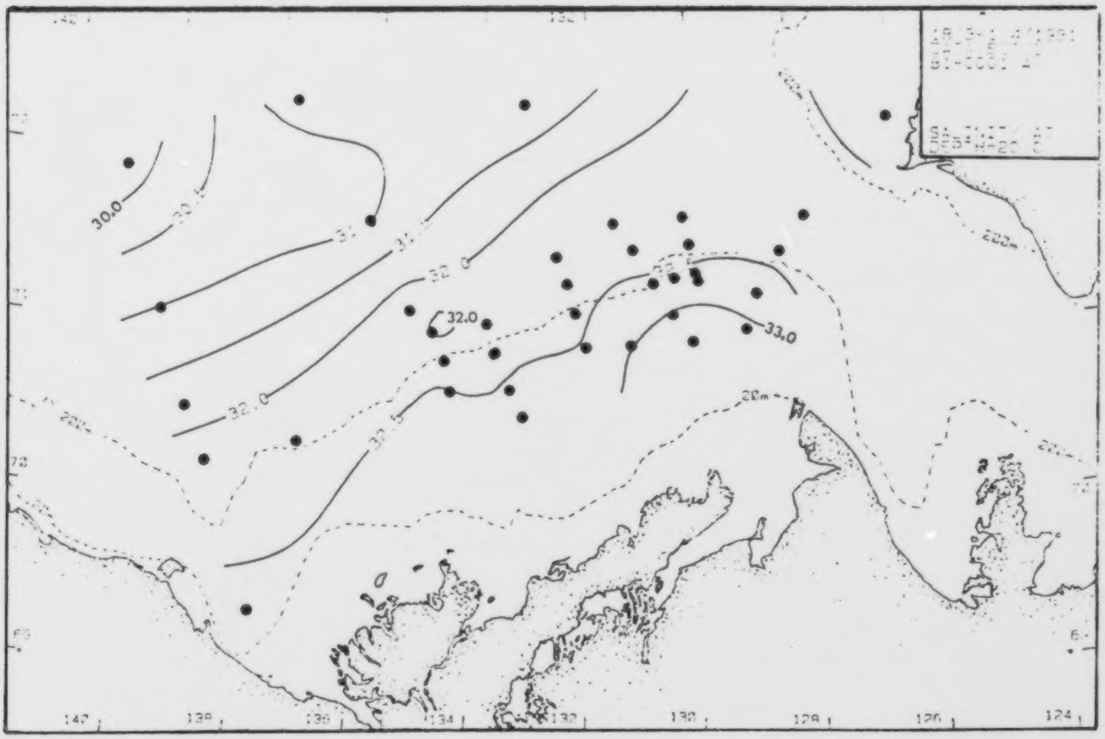

18-27/9/1982
DATA SET(S):
SALINITY AT
DEPTH=1.0
23
22
20
18
12
9
134
132

2 102


18/3-1/4/1981
DATA SET(S):
81-0001 A
TEMPERATURE AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
-1.5
-1.0


18/3-1/4/1981
DATA SET(S):
81-0001 A
SALINITY AT
DEPTH=1.0
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
30
31
32
33
34
29
28
25
23
20
16


BI-OOOI A
TEMPERATURE AT
DEPTH=20 0
<-1.5
142
132
130
138
136
134
128
126
124
72
70
69
22m
222m


BI-OOOI A
SALINITY AT
DEPTH=20 0
30.0
32.0
32.5
33.0
142
132
138
136
134
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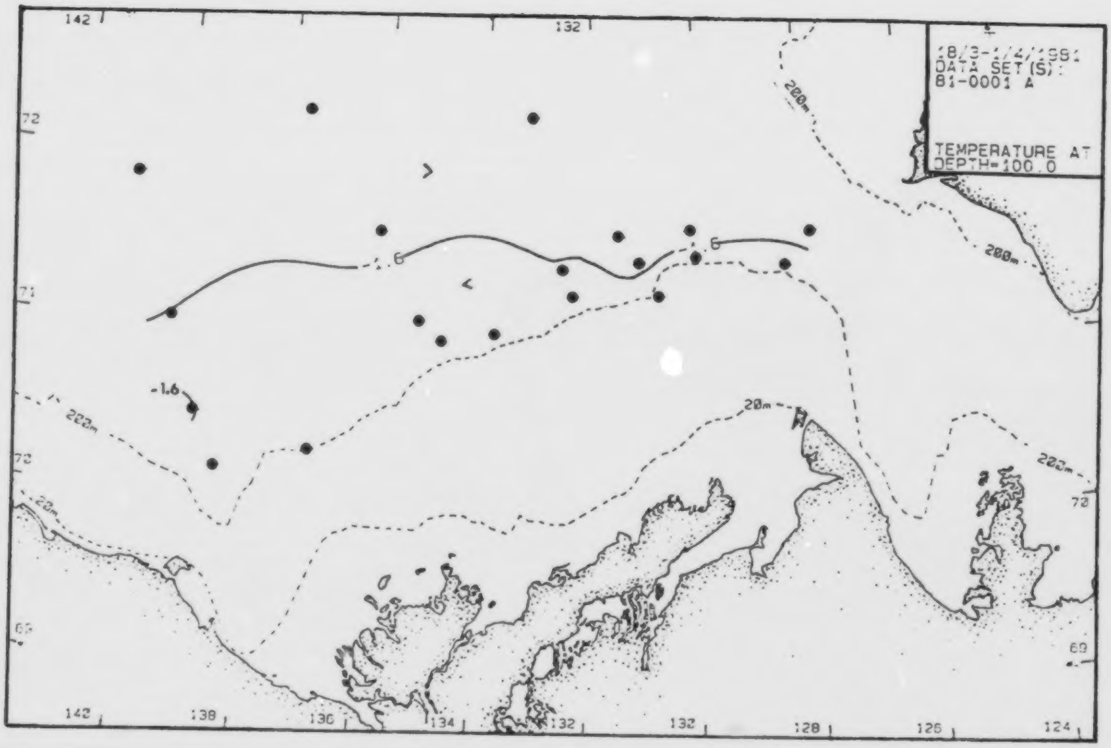
126
124
72
70
69
22m
222m


18/3-1/4/1981
DATA SET(S):
81-0001 A
TEMPERATURE AT
DEPTH=100.0
142
132
72
71
70
69
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-1.6
>
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200m
20m
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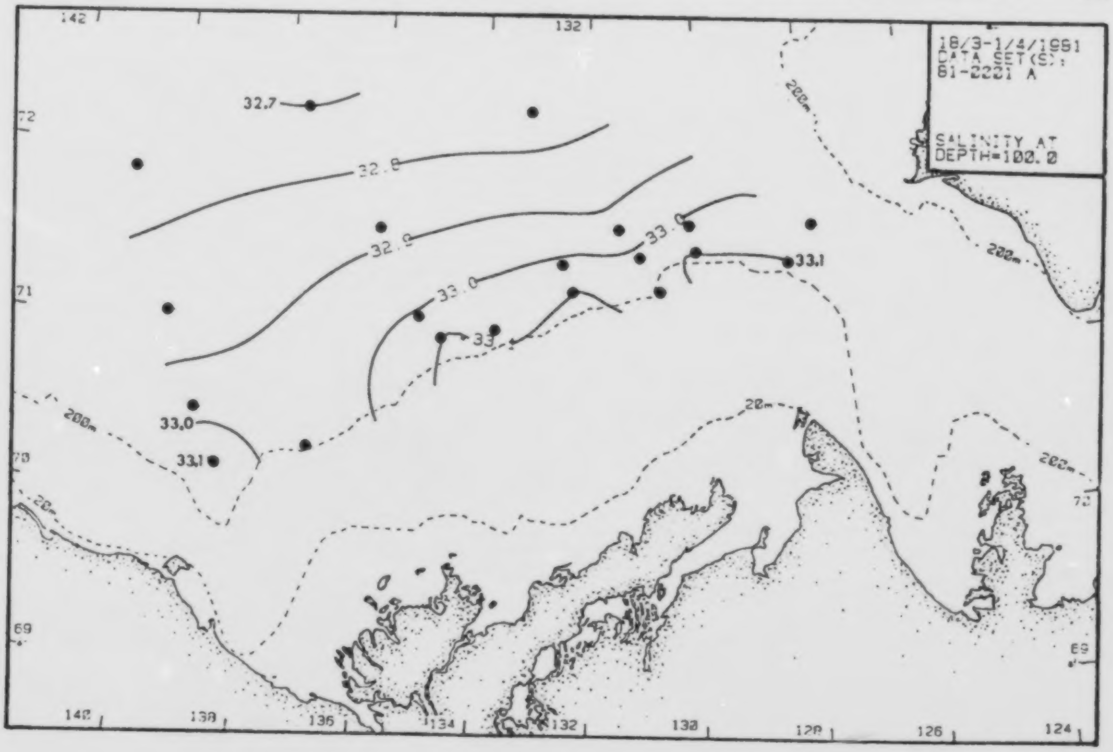
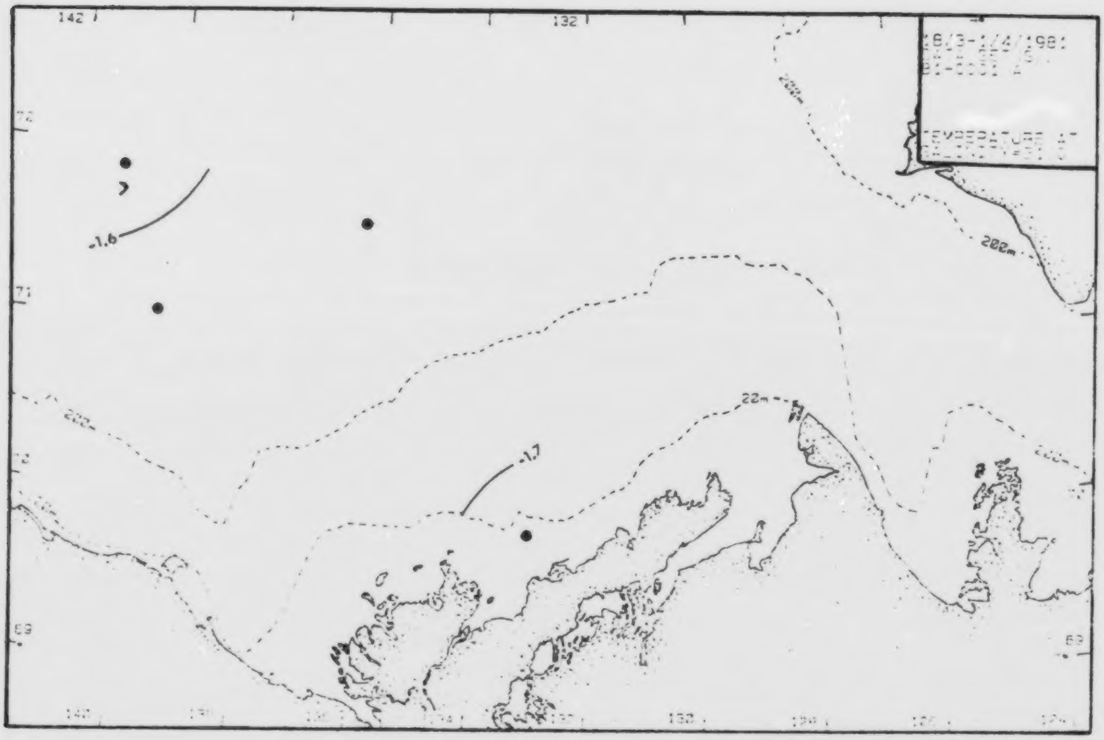
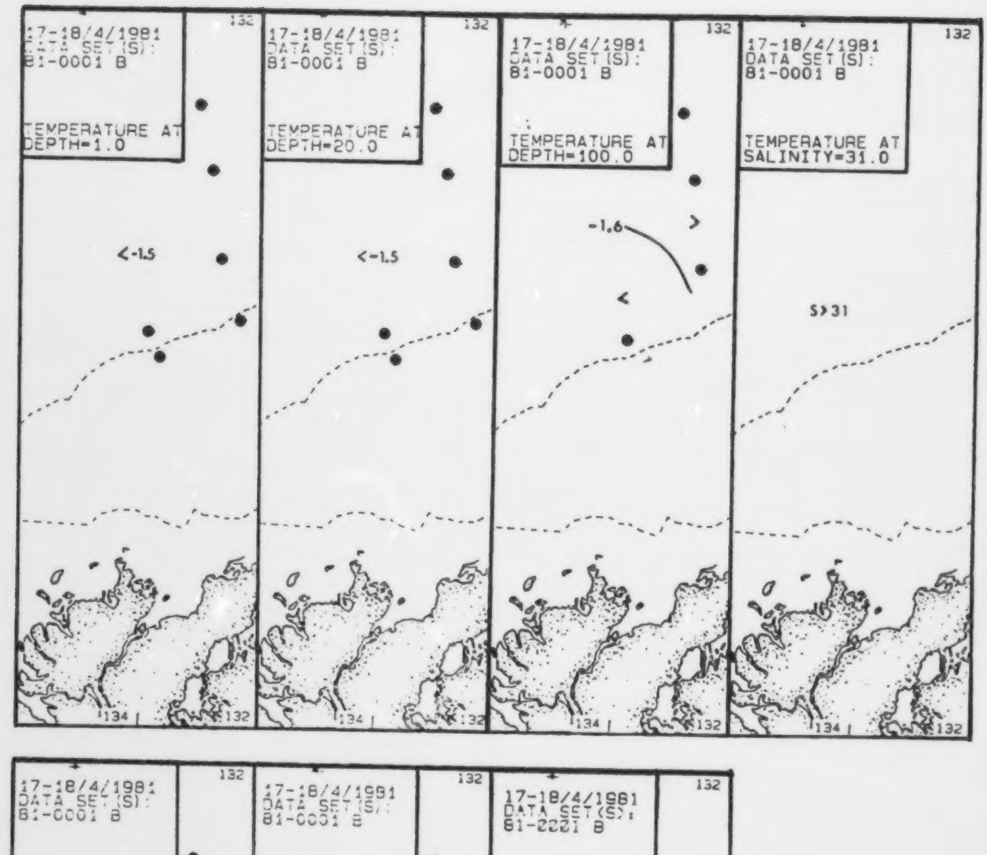
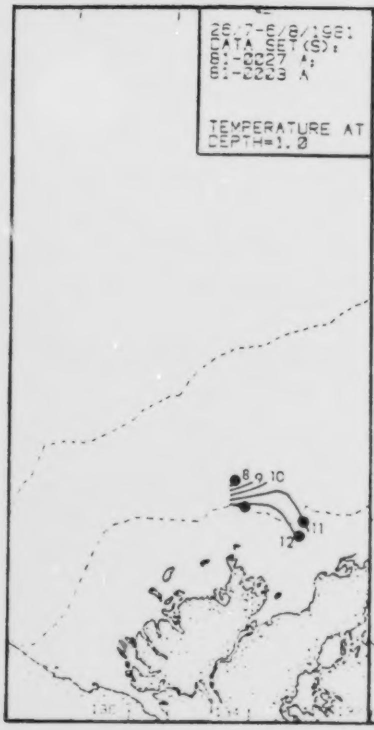
138
136
134
132
130
128
126
124


18/3-1/4/1981
DATA SET(S):
81-0001 A
SALINITY AT
DEPTH=100.0
142
132
72
71
70
69
32.7
32.8
32.9
33.0
33.0
33.1
33.1
33.0
33.1
200m
20m
140
138
136
134
132
130
128
126
124


142
132
72
71
69
-1.6
-1.7
202m
22m
18/3-1/4/1981
TEMPERATURE AT
140
138
136
134
132
130
128
126
124


17-18/4/1981
DATA SET(S):
81-0001 B
TEMPERATURE AT
DEPTH=1.0
<-1.5
17-18/4/1981
DATA SET(S):
81-0001 B
TEMPERATURE AT
DEPTH=20.0
<-1.5
17-18/4/1981
DATA SET(S):
81-0001 B
TEMPERATURE AT
DEPTH=100.0
-1.6
>
<
17-18/4/1981
DATA SET(S):
81-0001 B
TEMPERATURE AT
SALINITY=31.0
S>31
17-18/4/1981
DATA SET(S):
81-0001 B
SALINITY AT
DEPTH=1.0
<
32
>
17-18/4/1981
DATA SET(S):
81-0001 B
SALINITY AT
DEPTH=20.0
32
32.5
17-18/4/1981
DATA SET(S):
81-0001 B
SALINITY AT
DEPTH=100.0
32.8
32.9
132
134
132


26/7-6/8/1981
DATA SET(S):
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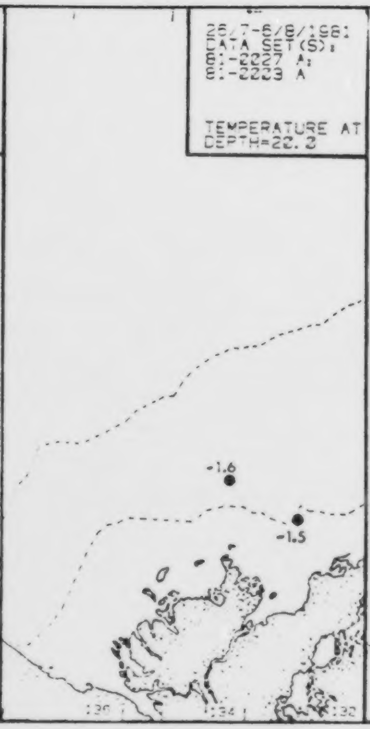
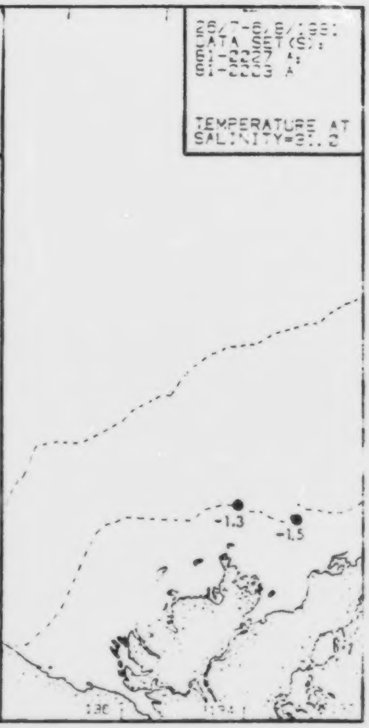
81-2223 A
TEMPERATURE AT
DEPTH=1.0
8
9
10
11
12
136
134
132


26/7-6/8/1981
DATA SET(S):
81-2227 A;
81-2223 A
TEMPERATURE AT
DEPTH=22.0
-1.6
-1.5
136
134
132


26/7-6/8/1981
DATA SET(S):
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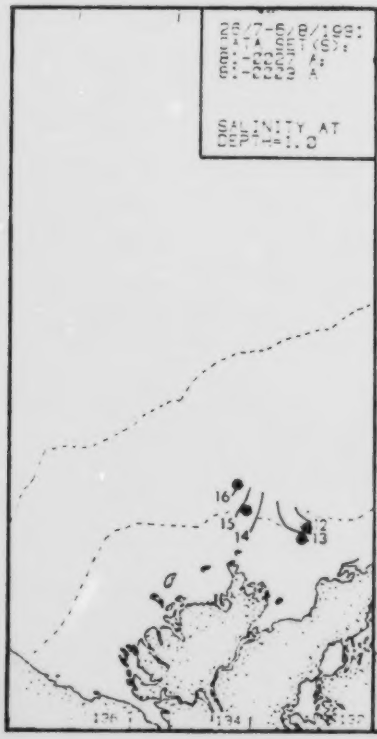
81-2223 A
TEMPERATURE AT
SALINITY=31.0
-1.3
-1.5
136
134


26/7-6/8/1981
DATA SET(S):
81-2227 A;
81-2223 A
SALINITY AT
DEPTH=1.0
16
15
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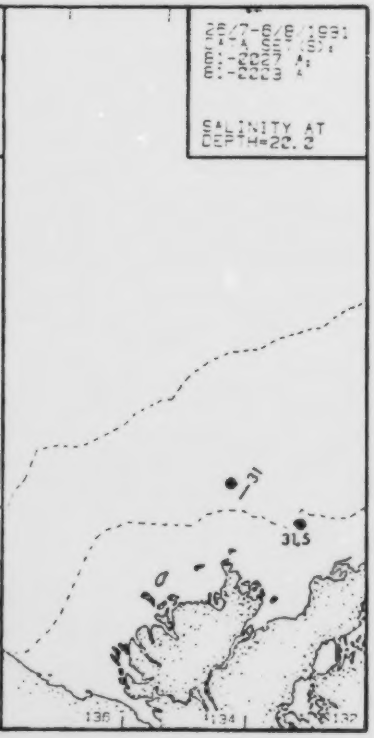
12
13
136
134
132


26/7-6/8/1981
DATA SET(S):
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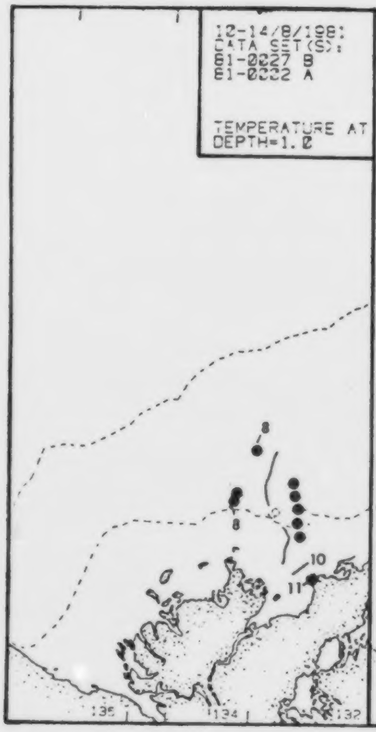
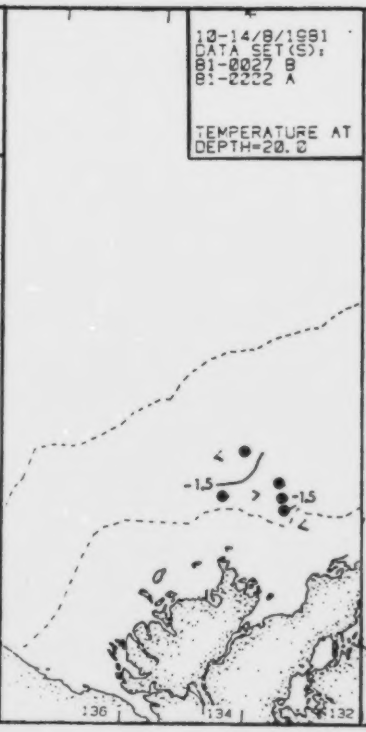
81-2223 A
SALINITY AT
DEPTH=22.0
31
31.5
136
134
132


10-14/8/1981
DATA SET(S):
81-0027 B
81-0022 A
TEMPERATURE AT
DEPTH=1.0
8
8
10
11
136
134
132


10-14/8/1981
DATA SET(S):
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81-0022 A
TEMPERATURE AT
DEPTH=20.0
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136
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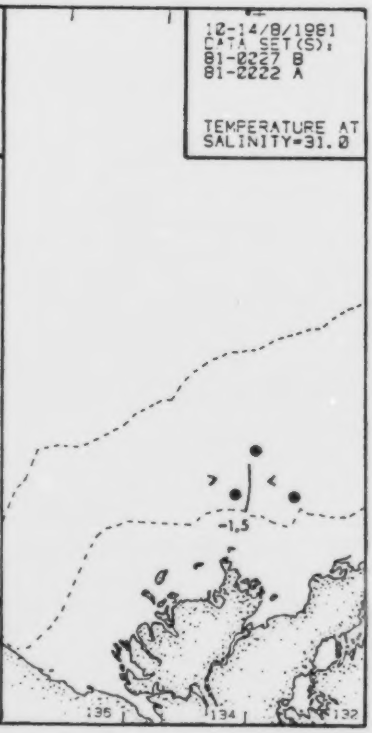
10-14/8/1981
DATA SET(S):
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81-0022 A
TEMPERATURE AT
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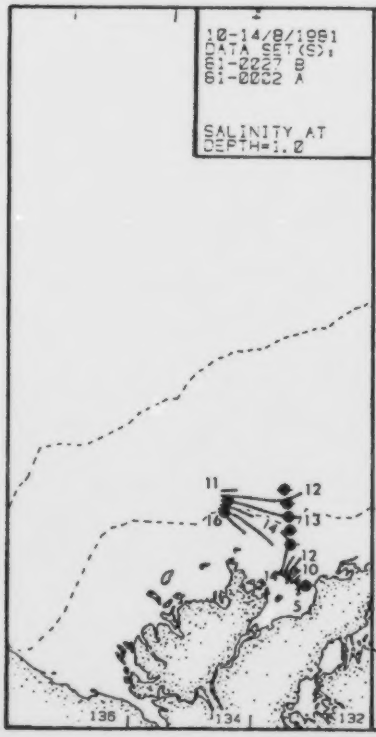
10-14/8/1981
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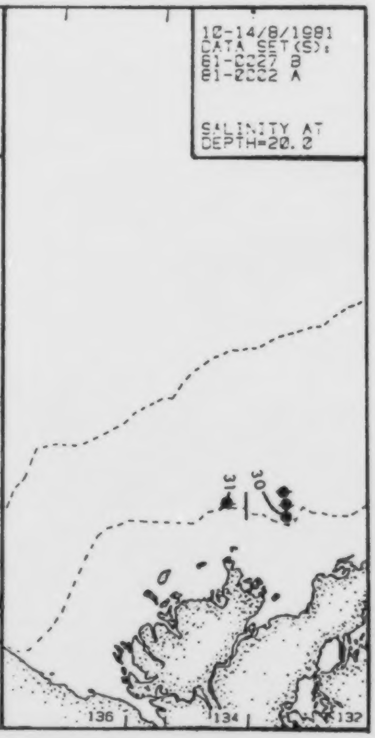
10-14/8/1981
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DEPTH=20.0
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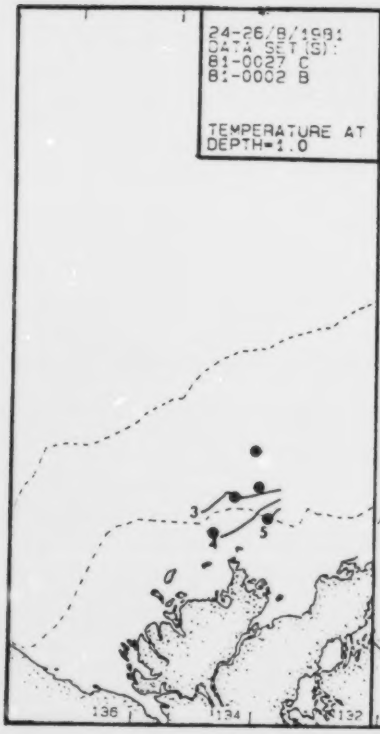
24-26/8/1981
DATA SET(S):
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DEPTH=1.0
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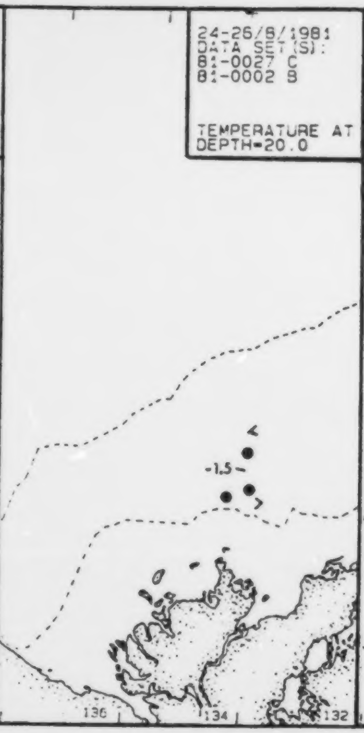
24-26/8/1981
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DEPTH=20.0
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7
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134
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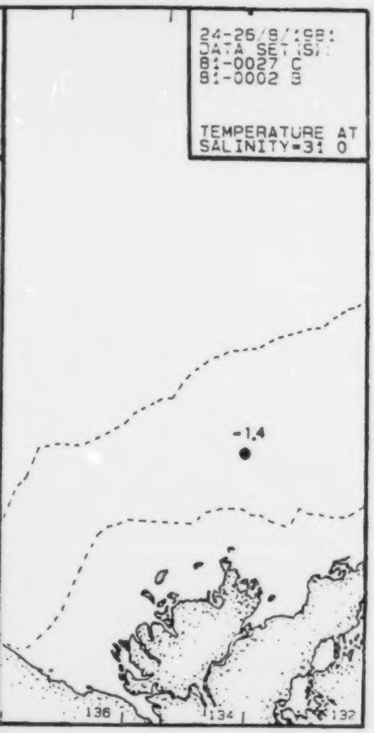
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134
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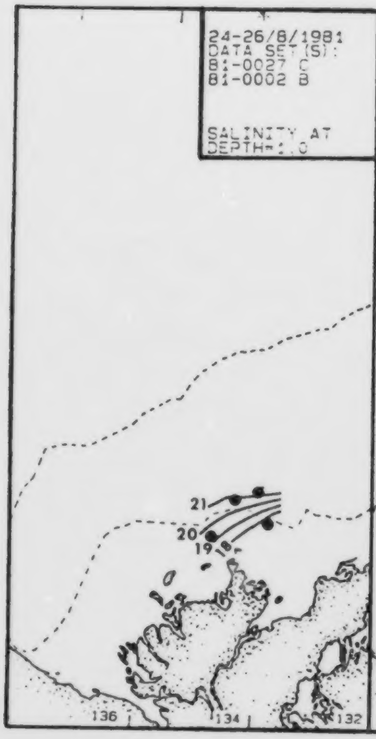
24-26/8/1981
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81-0002 B
SALINITY AT
DEPTH=1.0
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19
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134
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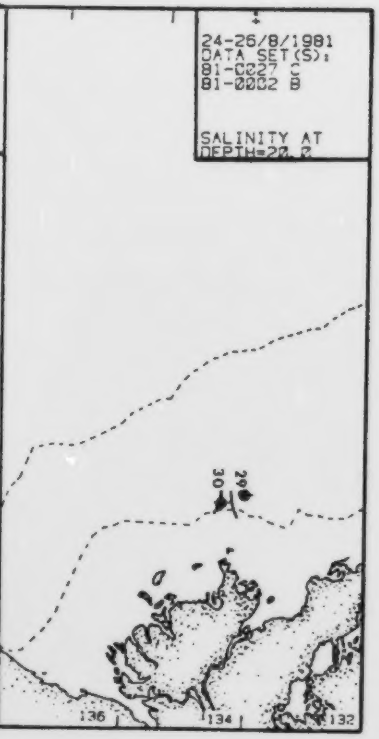
24-26/8/1981
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DEPTH=20.0
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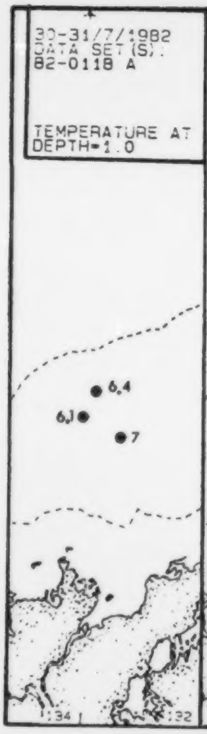
30-31/7/1982
DATA SET(S):
82-0118 A
TEMPERATURE AT
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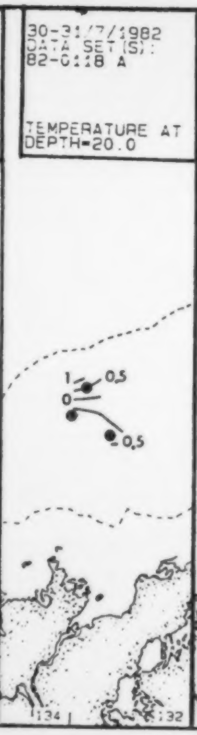
6,4
6,1
7
:34
:32


30-31/7/1982
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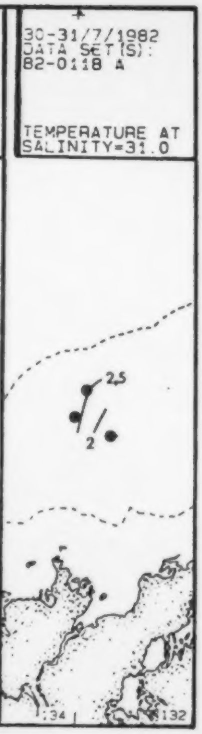
30-31/7/1982
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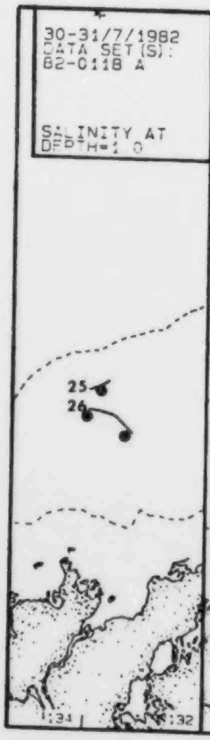
:32


30-31/7/1982
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26
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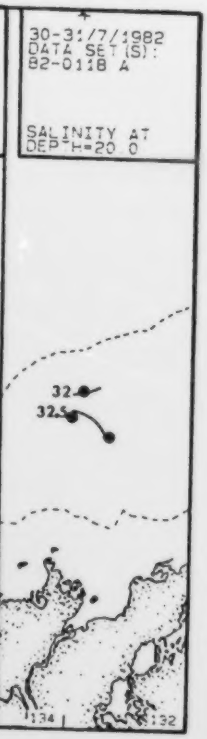
30-31/7/1982
DATA SET(S):
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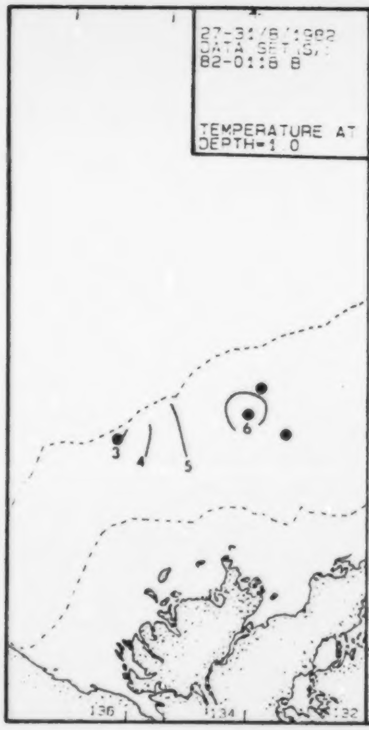
DEPTH=20.0
32
32,5
:34
:32


27-31/8/1982
DATA SET(S):
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TEMPERATURE AT
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4
5
6
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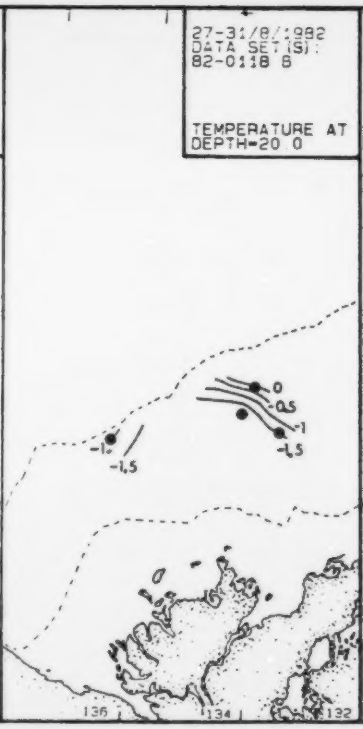
134
132


27-31/8/1982
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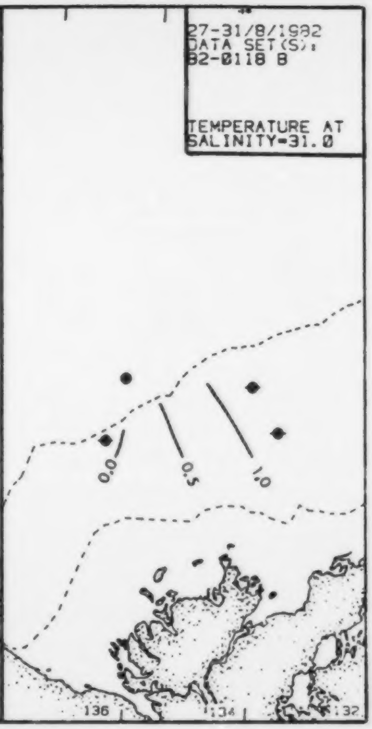
-1.5
-1.5
136
134
132


27-31/8/1982
DATA SET(S):
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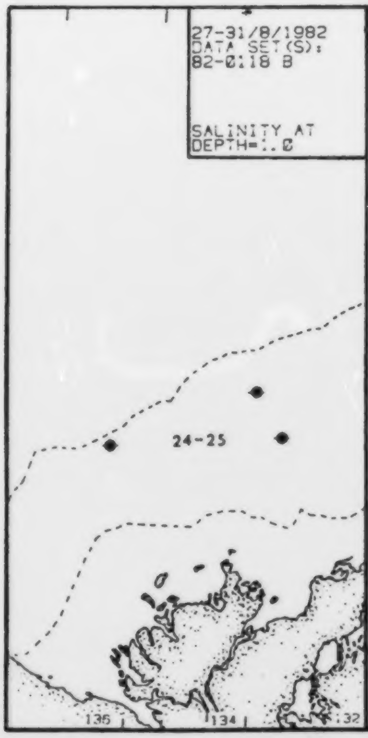
27-31/8/1982
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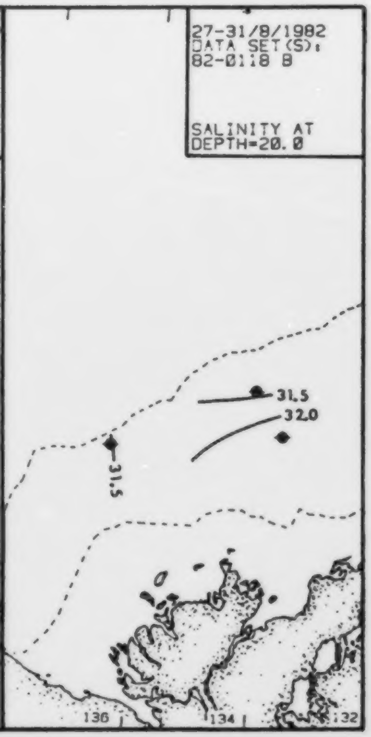
27-31/8/1982
DATA SET(S):
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DEPTH=20.0
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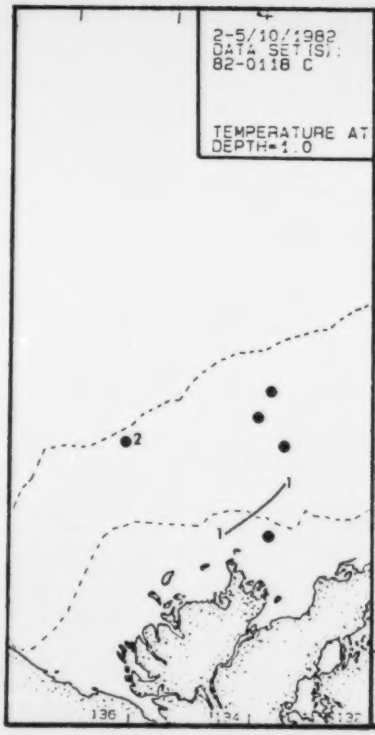
2-5/10/1982
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DEPTH=1.0
2
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1
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134
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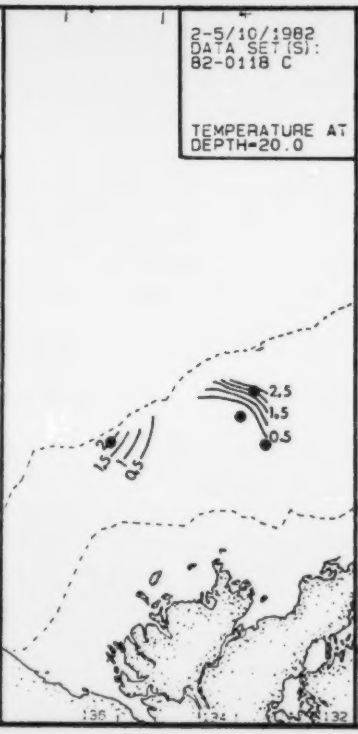
2-5/10/1982
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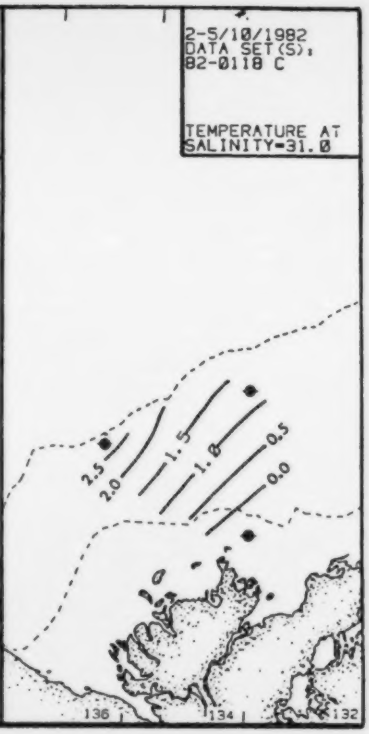
2-5/10/1982
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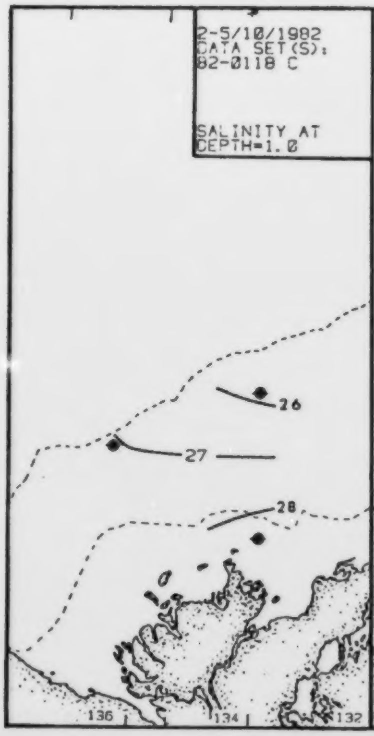
2-5/10/1982
DATA SET(S):
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SALINITY AT
DEPTH=1.0
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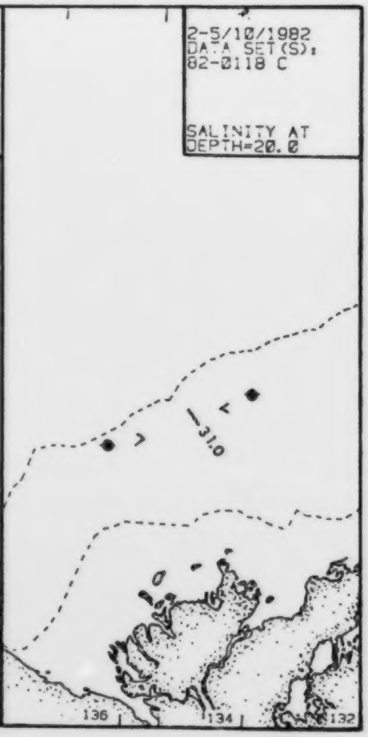
2-5/10/1982
DATA SET(S):
82-0118 C
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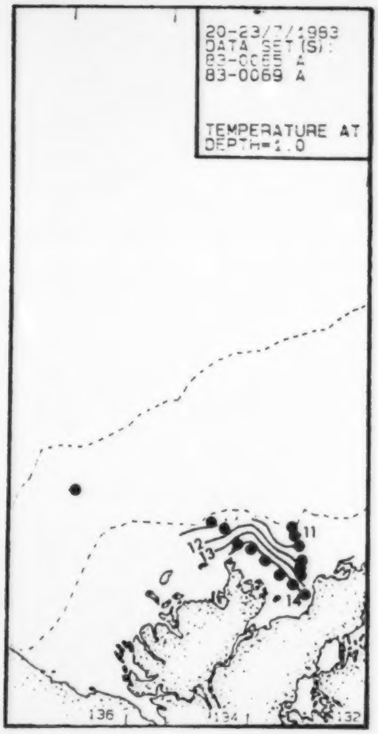
20-23/7/1983
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83-0069 A
TEMPERATURE AT
DEPTH=1.0
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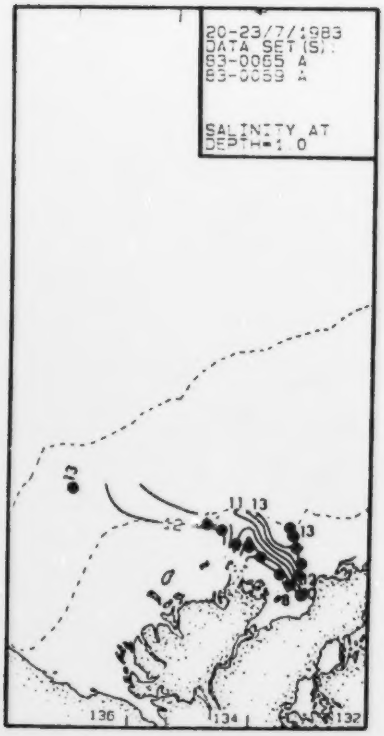
20-23/7/1983
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83-0069 A
SALINITY AT
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134
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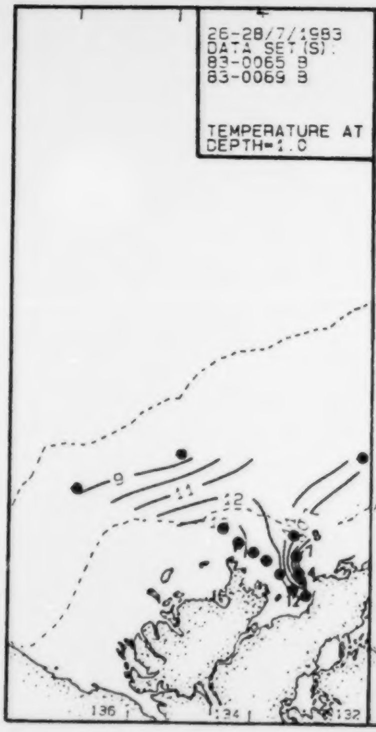
26-28/7/1983
DATA SET(S):
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83-0069 B
TEMPERATURE AT
DEPTH=1.0
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134
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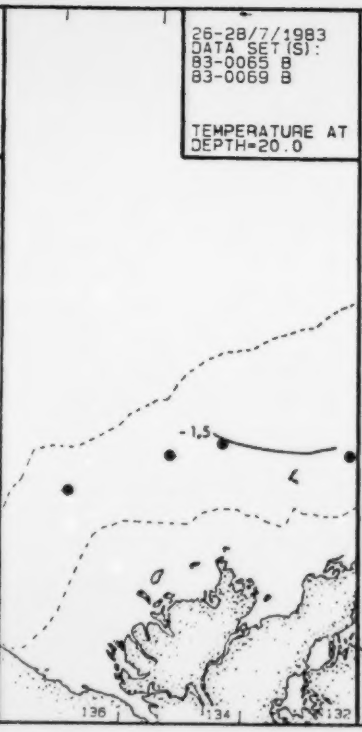
26-28/7/1983
DATA SET(S):
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83-0069 B
TEMPERATURE AT
DEPTH=20.0
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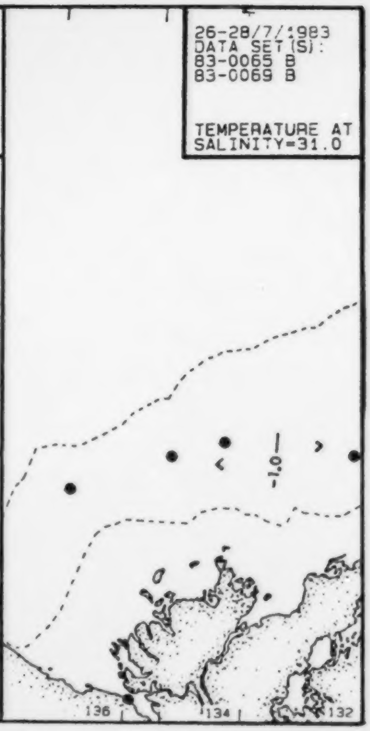
26-28/7/1983
DATA SET(S):
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83-0069 B
TEMPERATURE AT
SALINITY=31.0
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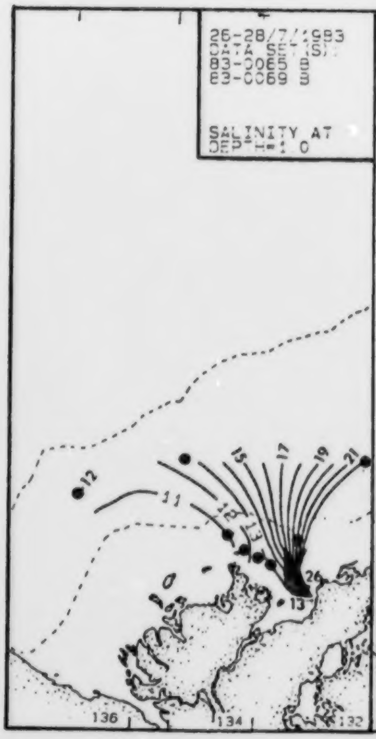
26-28/7/1983
DATA SET(S):
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83-0069 B
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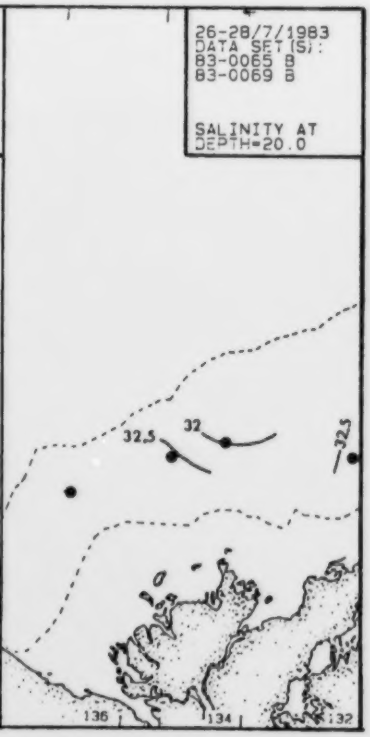
13
136
134
132


26-28/7/1983
DATA SET(S):
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SALINITY AT
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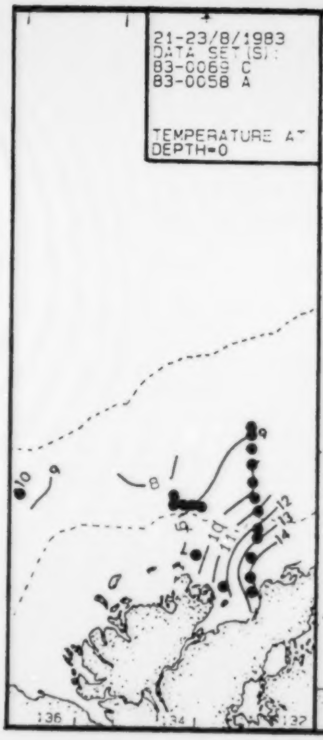
21-23/8/1983
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DEPTH=0
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12
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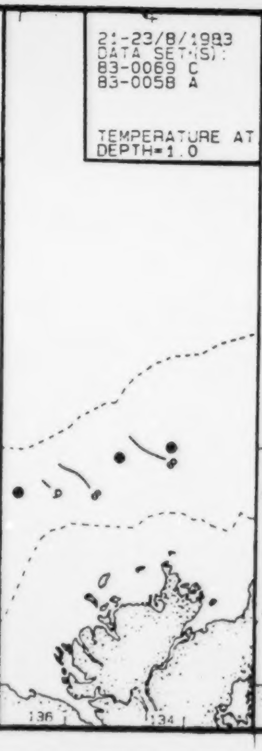
134
132


21-23/8/1983
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83-0058 A
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DEPTH=1.0
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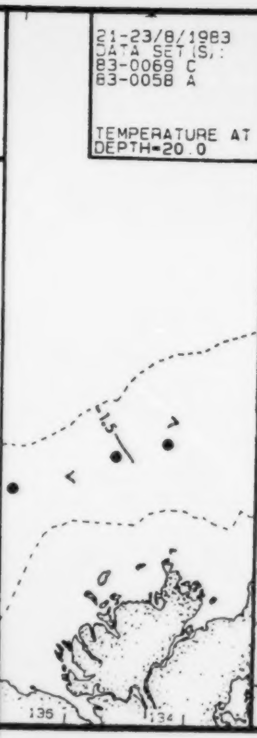
134


21-23/8/1983
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83-0058 A
TEMPERATURE AT
DEPTH=20.0
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136
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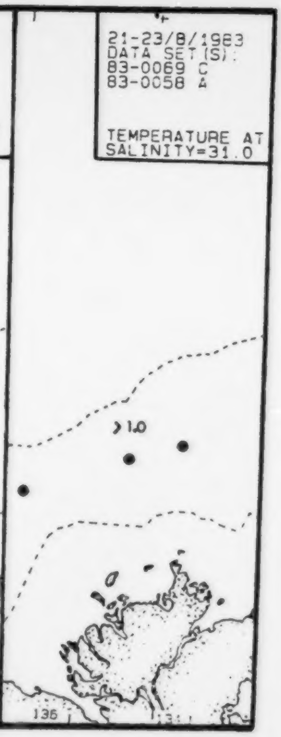
21-23/8/1983
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83-0058 A
TEMPERATURE AT
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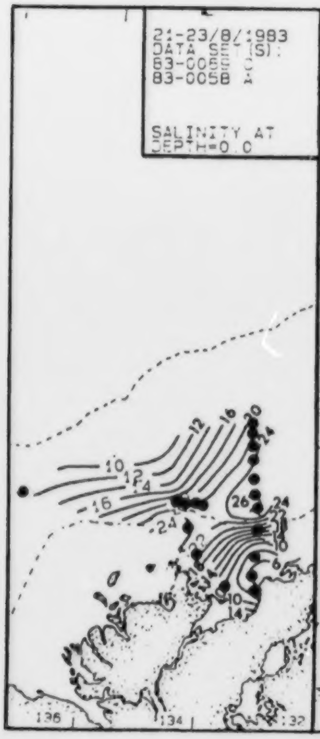
21-23/8/1983
DATA SET(S):
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SALINITY AT
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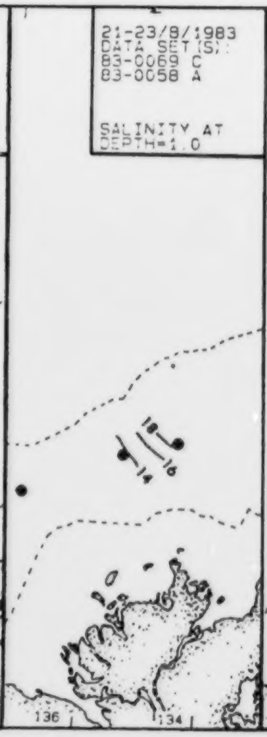
24
10
6
10
14
136
134
132


21-23/8/1983
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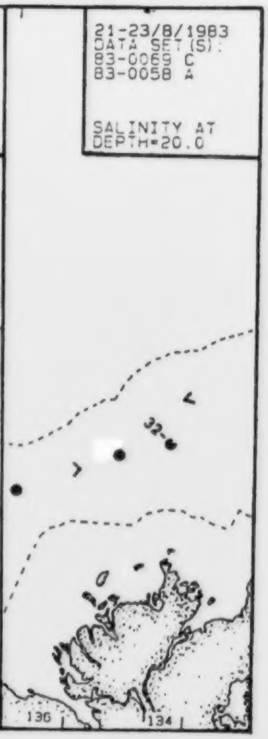
21-23/8/1983
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83-0058 A
SALINITY AT
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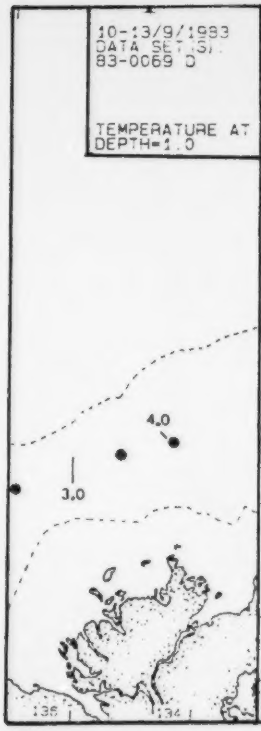
10-13/9/1983
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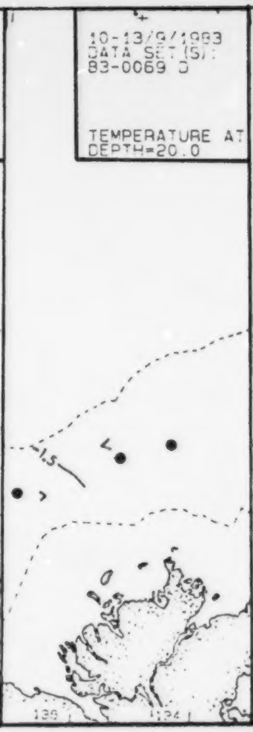
10-13/9/1983
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TEMPERATURE AT
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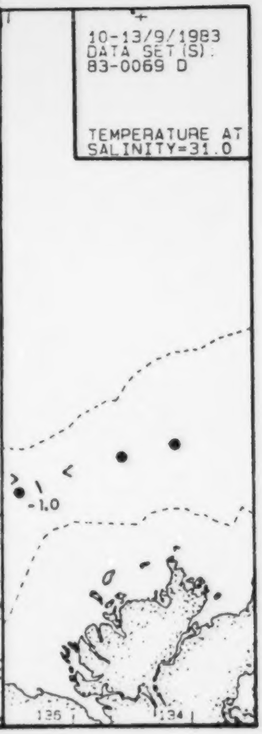
10-13/9/1983
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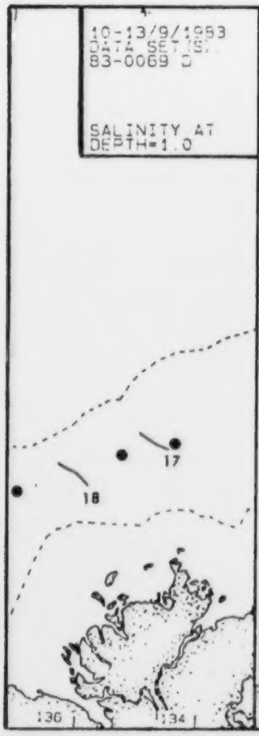
10-13/9/1983
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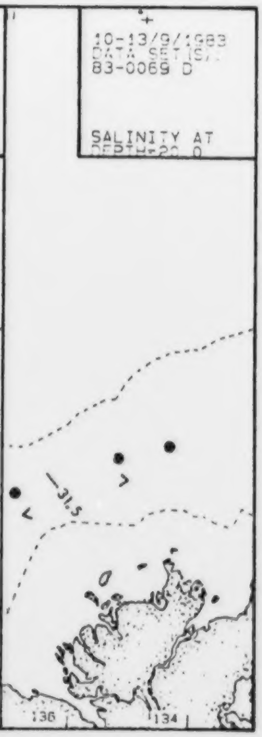
10-13/9/1983
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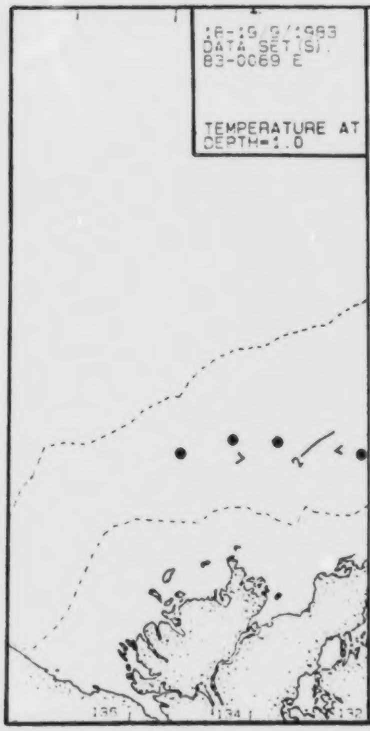
18-19/9/1983
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TEMPERATURE AT
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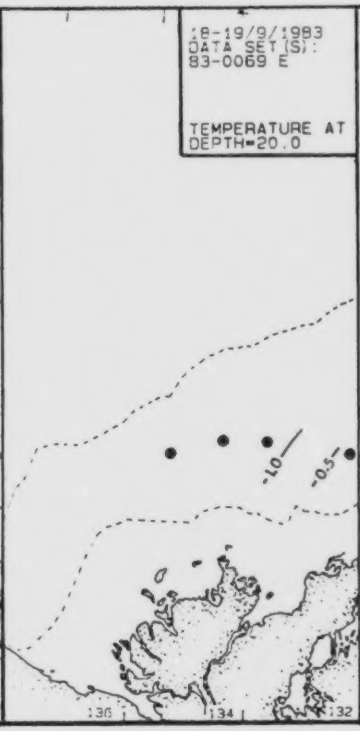
18-19/9/1983
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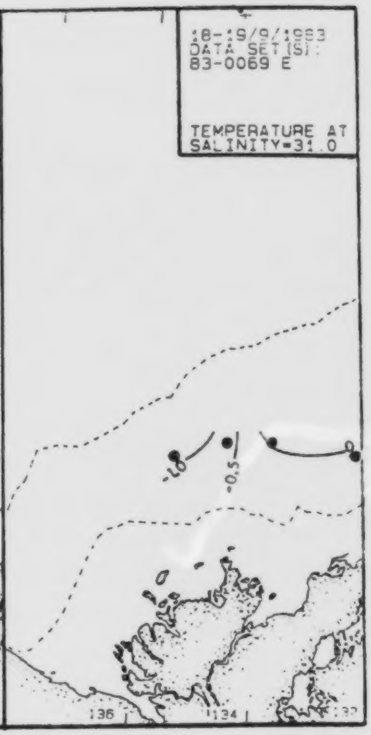
18-19/9/1983
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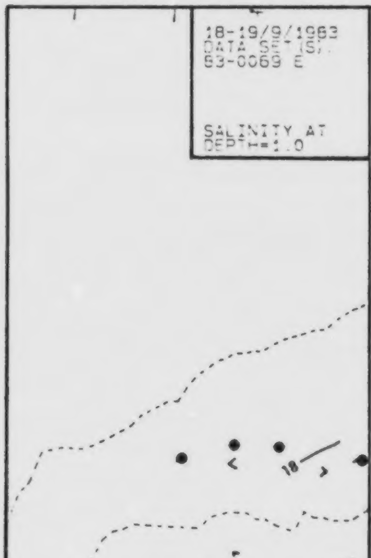
18-19/9/1983
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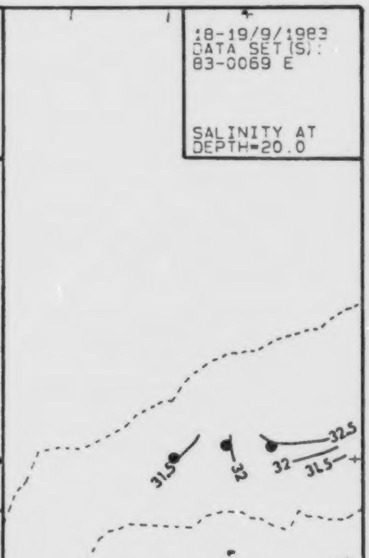
18-19/9/1983
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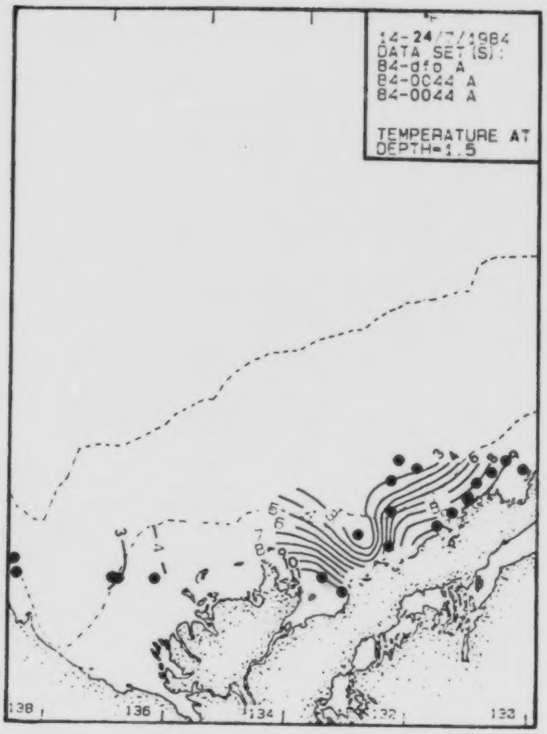
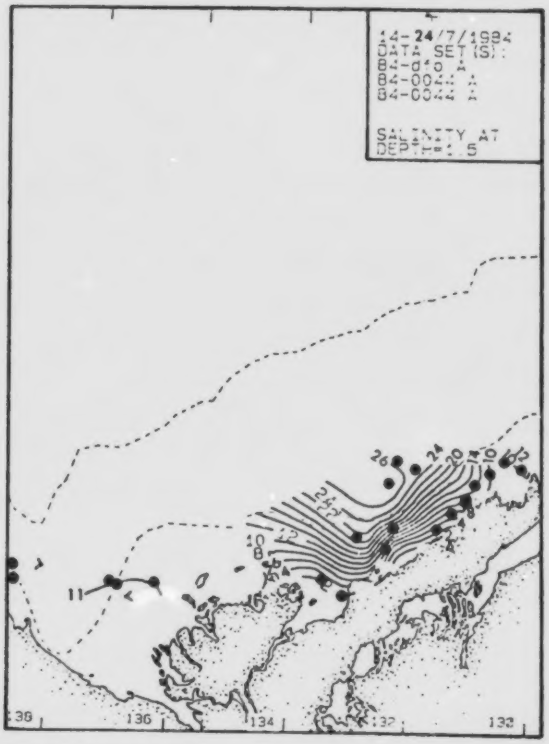

14-24/7/1984
DATA SET(S):
84-dfo A
84-0044 A
84-0044 A
TEMPERATURE AT
DEPTH=1.5
138
136
134
132
130


14-24/7/1984
DATA SET(S):
84-dfo A
84-0044 A
84-0044 A
SALINITY AT
DEPTH=1.5
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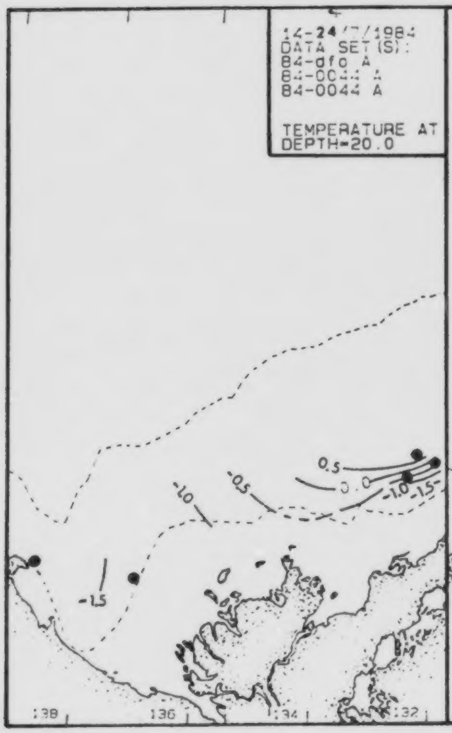
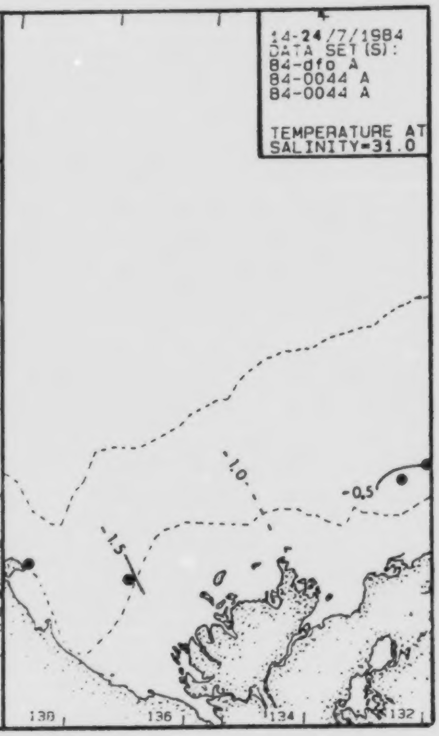
136
134
132
130


14-24/7/1984
DATA SET(S):
84-dfo A
84-0044 A
84-0044 A
TEMPERATURE AT
DEPTH=20.0
0.5
0.0
-0.5
-1.0
-1.5
138
136
134
132


14-24/7/1984
DATA SET(S):
84-dfo A
84-0044 A
84-0044 A
TEMPERATURE AT
SALINITY=31.0
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-1.5
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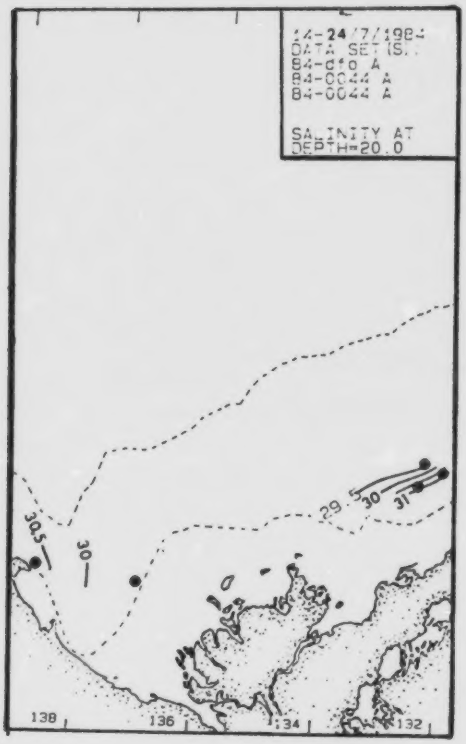
14-24/7/1984
DATA SET(S):
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84-0044 A
84-0044 A
SALINITY AT
DEPTH=20.0
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30
29.5
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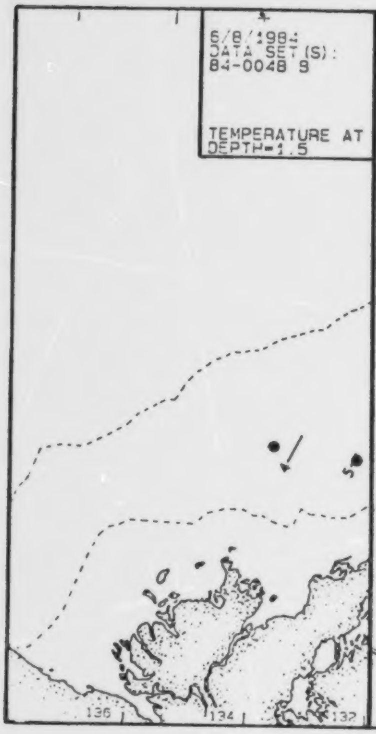
136
134
132


6/8/1984
DATA SET (S):
84-0048 B
TEMPERATURE AT
DEPTH=1.5
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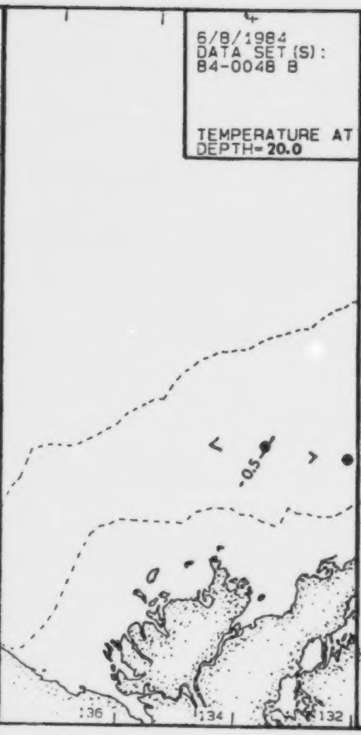
134
132


6/8/1984
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TEMPERATURE AT
DEPTH=20.0
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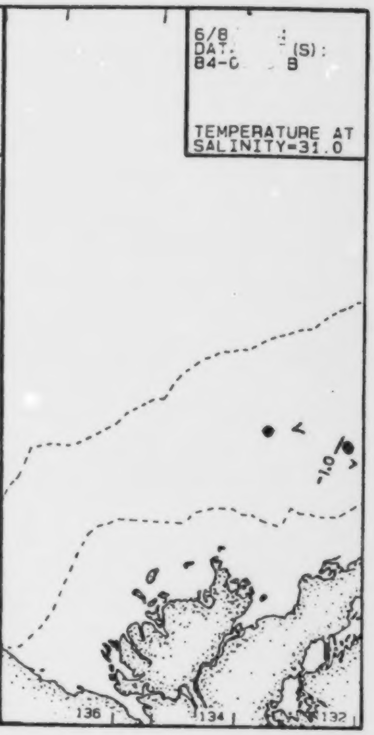
132


6/8
DAT.
(S):
84-C
B
TEMPERATURE AT
SALINITY=31.0
-1.0
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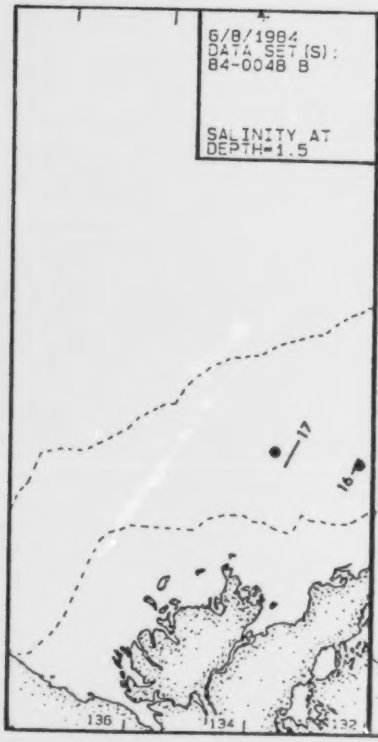
134
132


6/8/1984
DATA SET (S):
84-0048 B
SALINITY AT
DEPTH=1.5
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16
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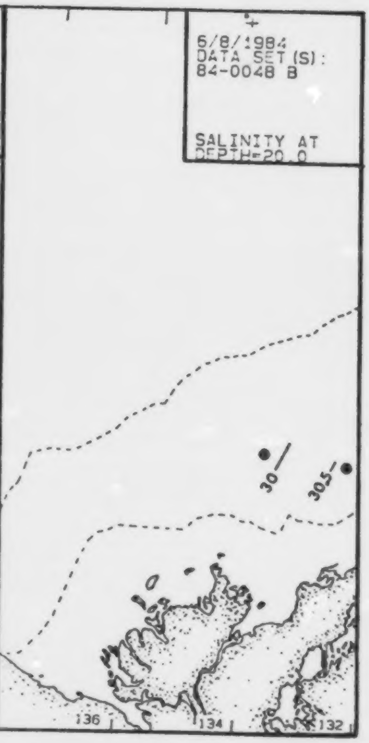
134
132


6/8/1984
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SALINITY AT
DEPTH=20.0
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30.5
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134
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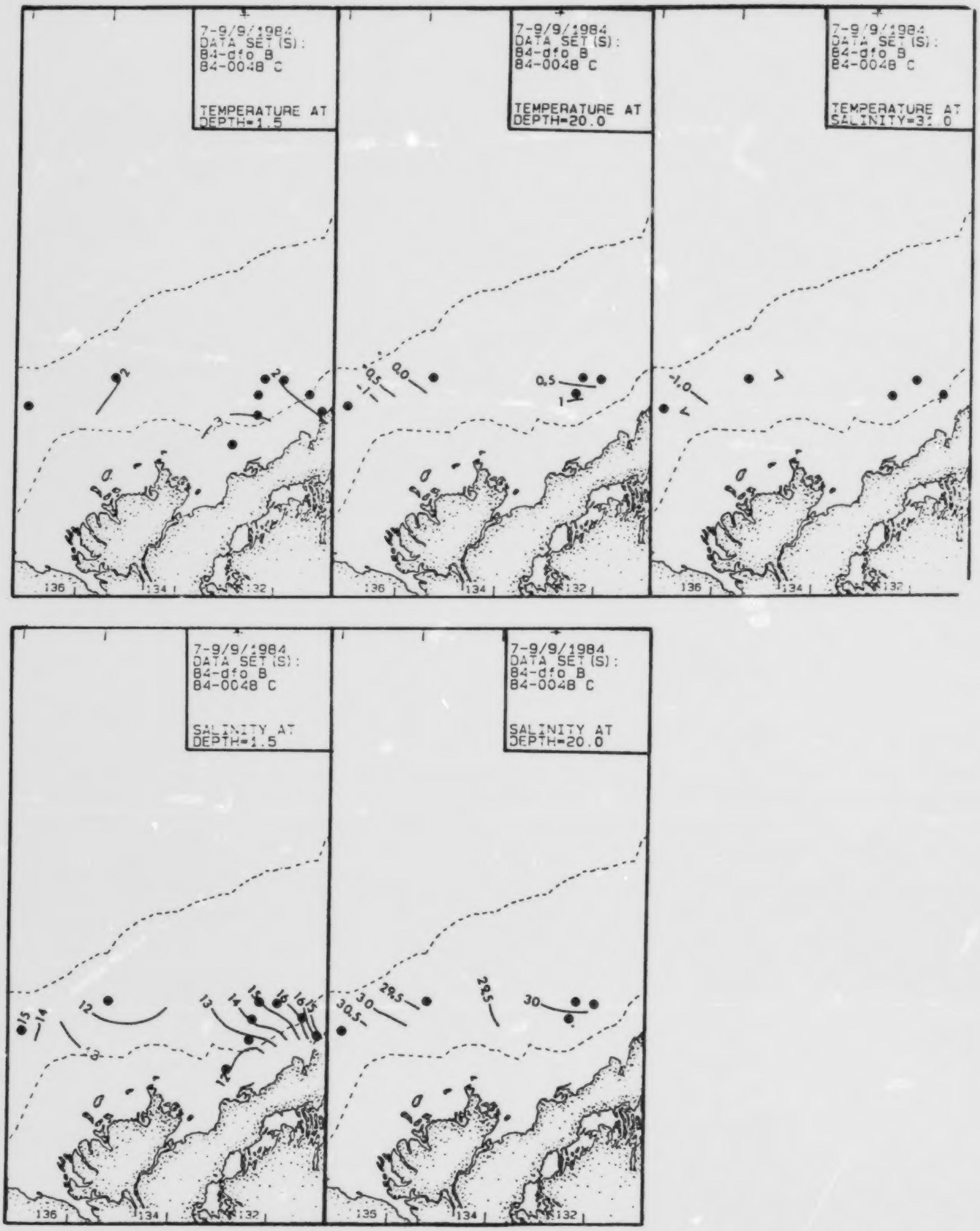
7-9/9/1984
DATA SET(S):
84-dfo B
84-0048 C
TEMPERATURE AT
DEPTH=1.5
7-9/9/1984
DATA SET(S):
84-dfo B
84-0048 C
TEMPERATURE AT
DEPTH=20.0
7-9/9/1984
DATA SET(S):
84-dfo B
84-0048 C
TEMPERATURE AT
SALINITY=31.0
7-9/9/1984
DATA SET(S):
84-dfo B
84-0048 C
SALINITY AT
DEPTH=1.5
7-9/9/1984
DATA SET(S):
84-dfo B
84-0048 C
SALINITY AT
DEPTH=20.0
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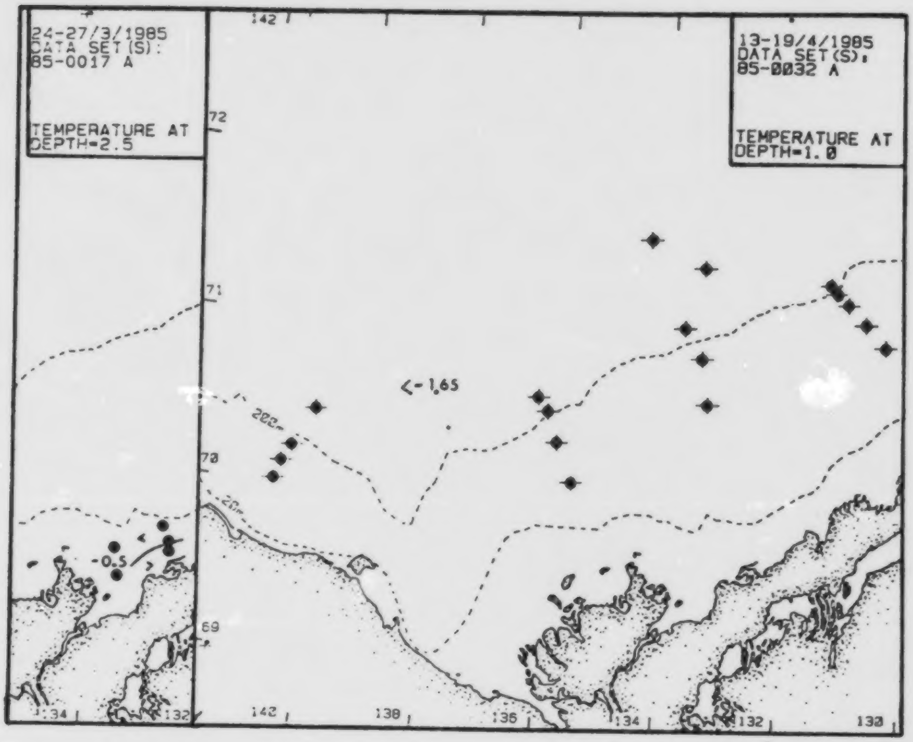
134
132
135


24-27/3/1985
DATA SET(S):
85-0017 A
TEMPERATURE AT
DEPTH=2.5
-0.5
13-19/4/1985
DATA SET(S):
85-0032 A
TEMPERATURE AT
DEPTH=1.0
<-1.65
200
20
142
72
71
70
69
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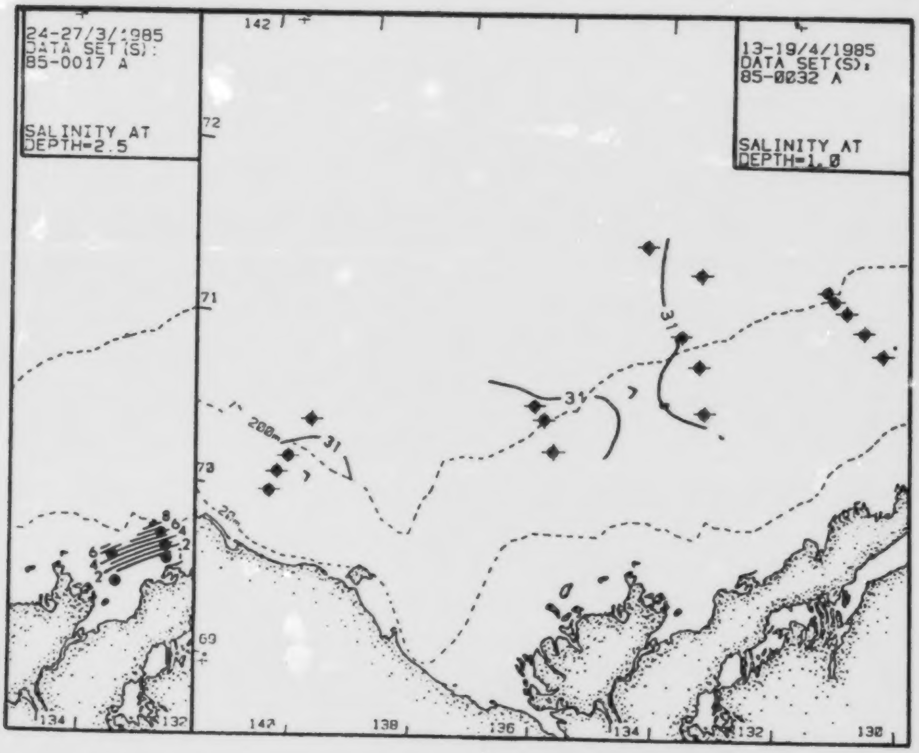
132
142
138
136
134
132
130


24-27/3/1985
DATA SET(S):
85-0017 A
SALINITY AT
DEPTH=2.5
8
6
4
2
13-19/4/1985
DATA SET(S):
85-0032 A
SALINITY AT
DEPTH=1.0
31
31
31
200m
20
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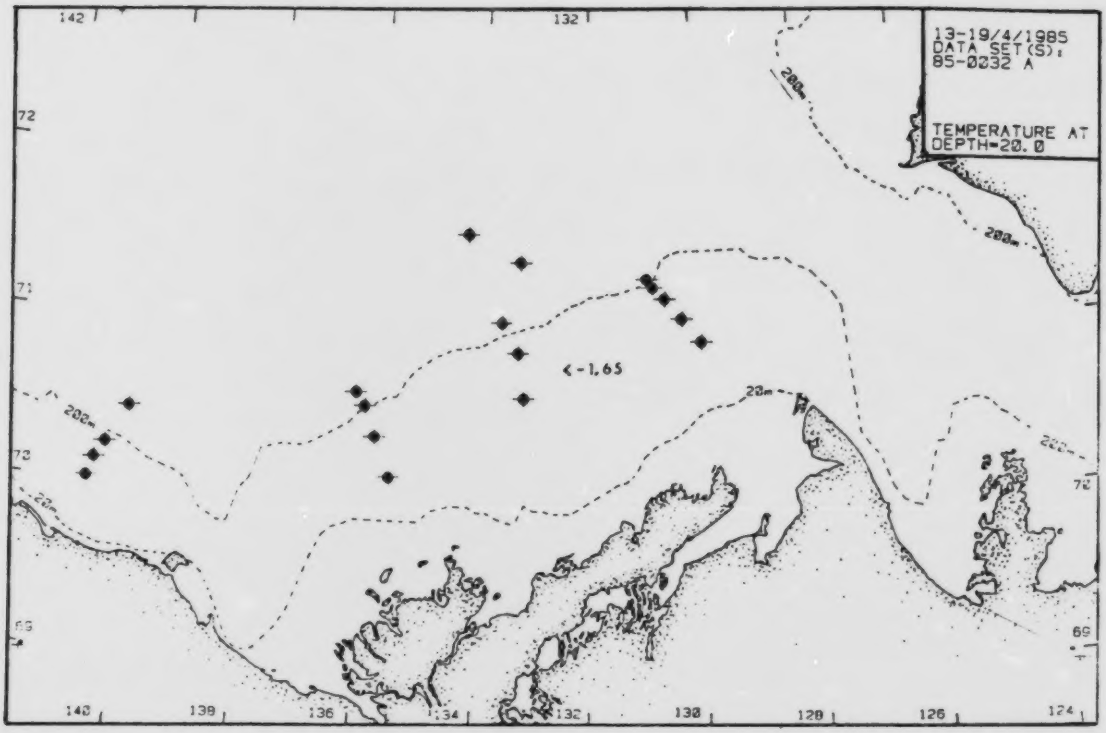
72
71
70
69
134
132
142
138
136
134
132
130


142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
13-19/4/1985
DATA SET(S):
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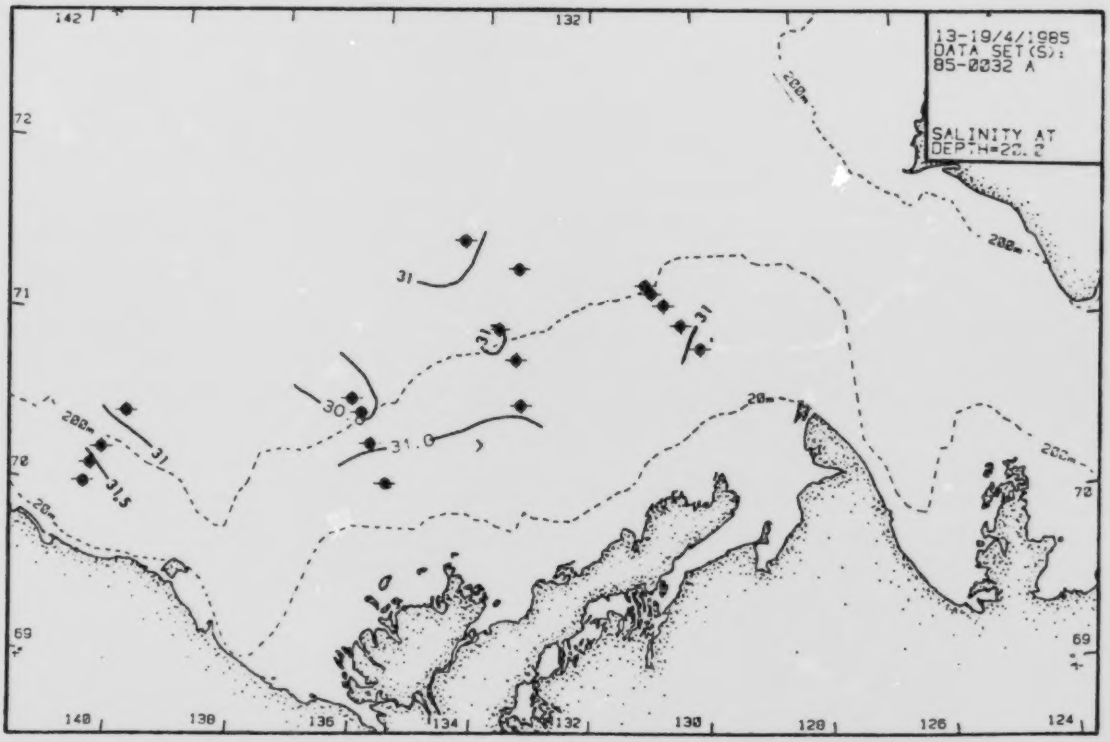
TEMPERATURE AT
DEPTH=20.0
<-1.65
200m
200m
200m
200m
20m
20m


142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
13-19/4/1985
DATA SET(S):
85-0032 A
SALINITY AT
DEPTH=20.0
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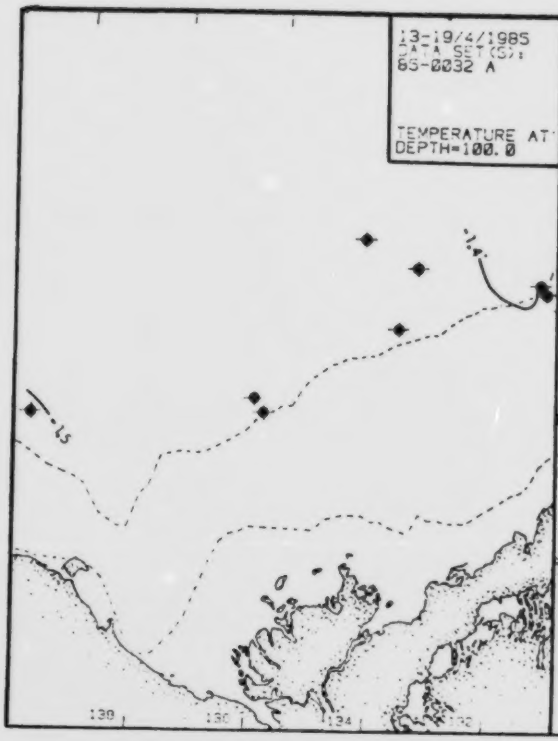
31
31
30
31.0
31
31.5
200m
200m
200m
200m
20m
20m


13-19/4/1985
DATA SET(S):
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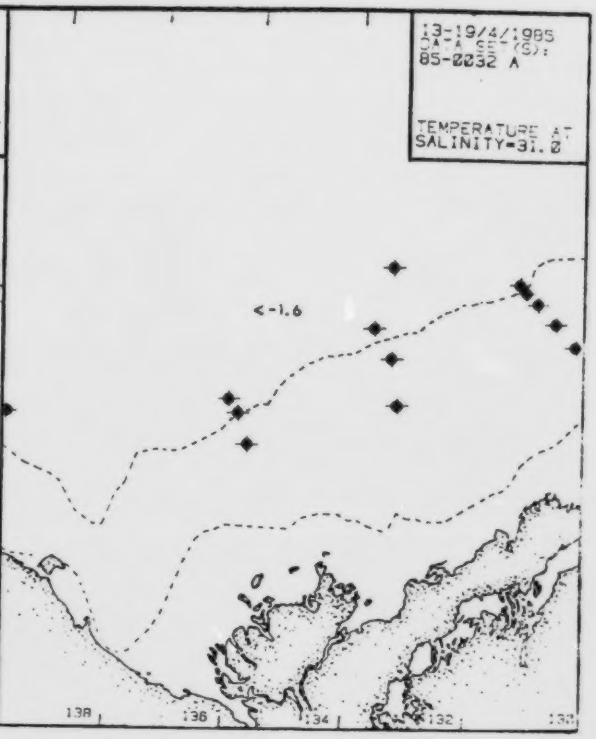
TEMPERATURE AT
DEPTH=100.0
-1.4
-1.5
138
136
134
132


13-19/4/1985
DATA SET(S):
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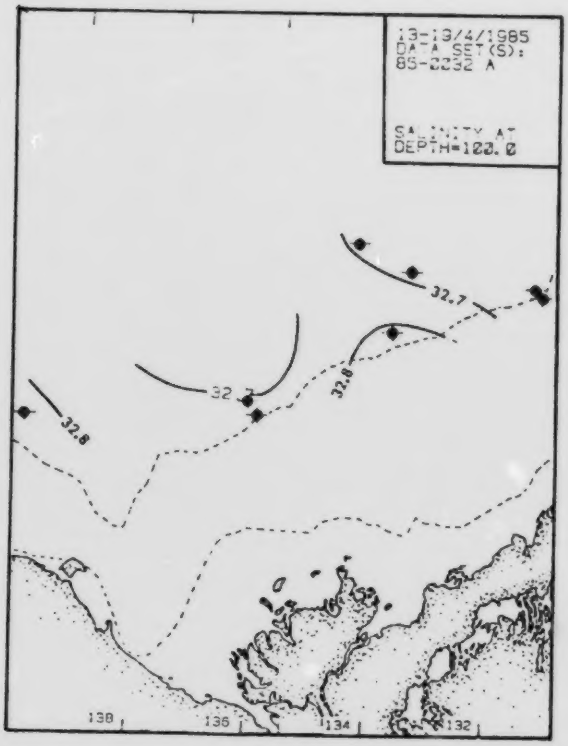
TEMPERATURE AT
SALINITY=31.0
<-1.6
138
136
134
132
130


13-19/4/1985
DATA SET(S):
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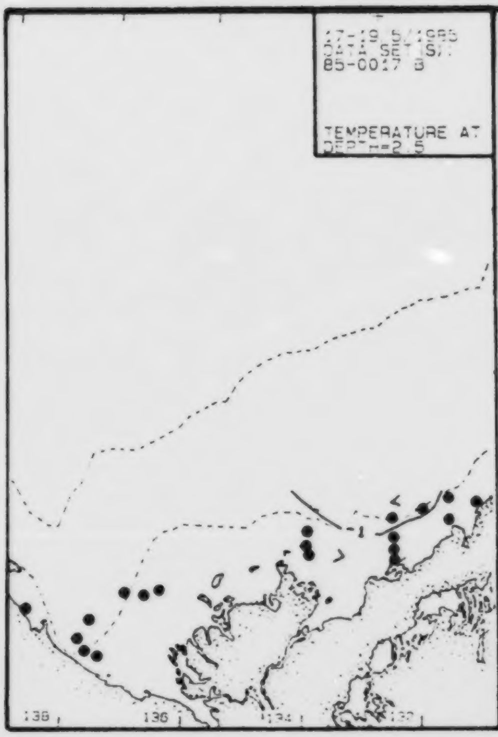
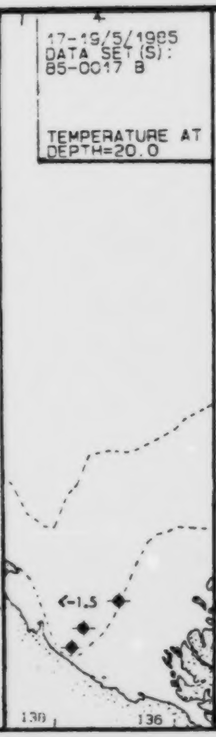
SALINITY AT
DEPTH=100.0
32.7
32.7
32.8
32.8
138
136
134
132


17-19/5/1985
DATA SET(S):
85-0017 B
TEMPERATURE AT
DEPTH=2.5
1
<
>
138
136
134
132


17-19/5/1985
DATA SET(S):
85-0017 B
TEMPERATURE AT
DEPTH=20.0
<-1.5
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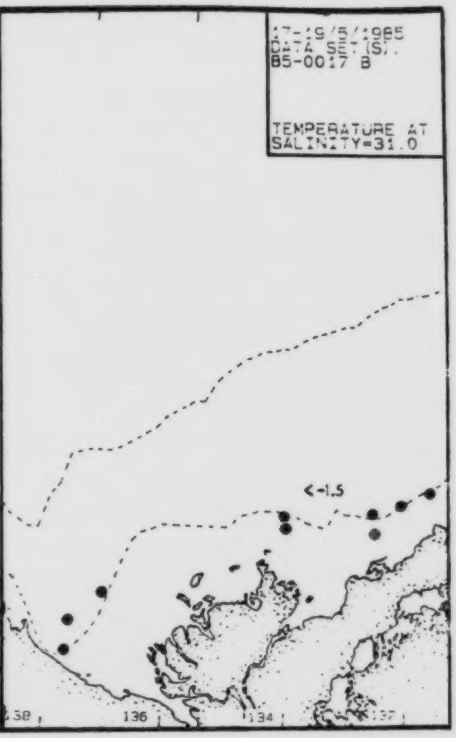
136


17-19/5/1985
DATA SET(S):
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TEMPERATURE AT
SALINITY=31.0
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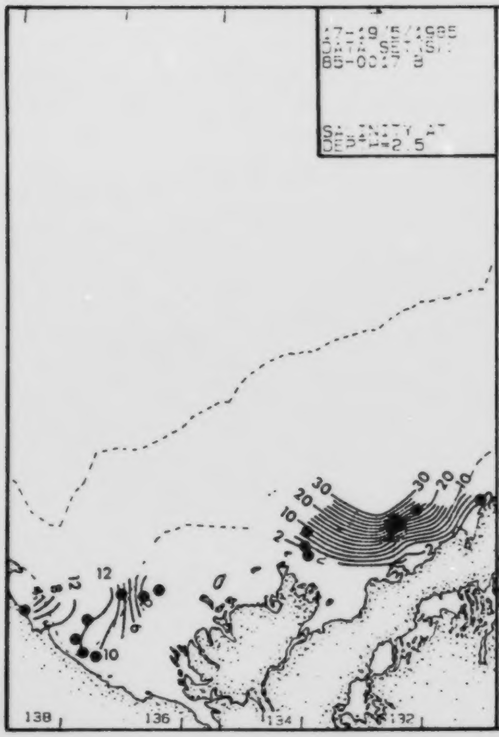
136
134
132


17-19/5/1985
DATA SET(S):
85-0017 B
SALINITY AT
DEPTH=2.5
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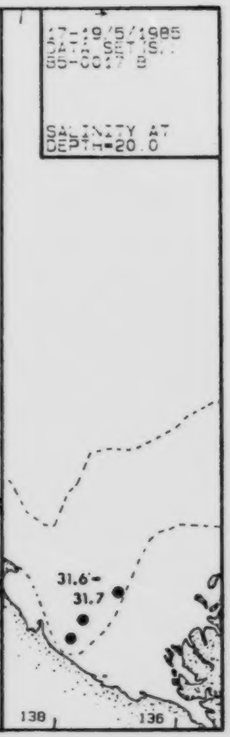
20
10
2
30
20
10
12
12
8
6
10
138
136
134
132


17-19/5/1985
DATA SET(S):
85-0017 B
SALINITY AT
DEPTH=20.0
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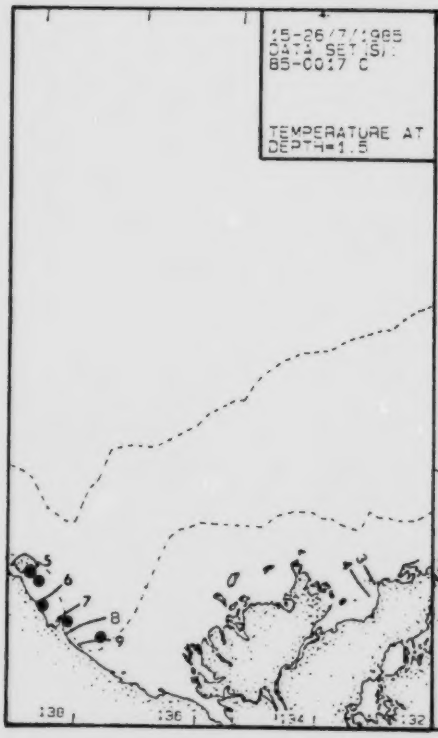
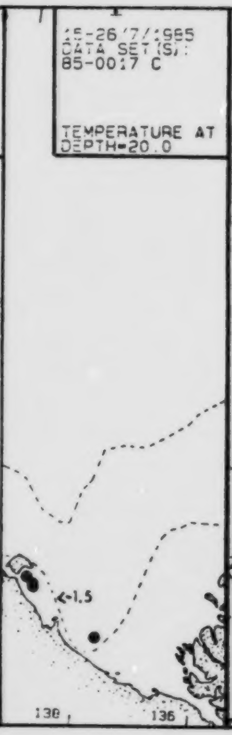
31.7
138
136


15-26/7/1985
DATA SET(S):
85-0017 C
TEMPERATURE AT
DEPTH=1.5
5
6
7
8
9
138
136
134
132


15-26/7/1985
DATA SET(S):
85-0017 C
TEMPERATURE AT
DEPTH=20.0
<-1.5
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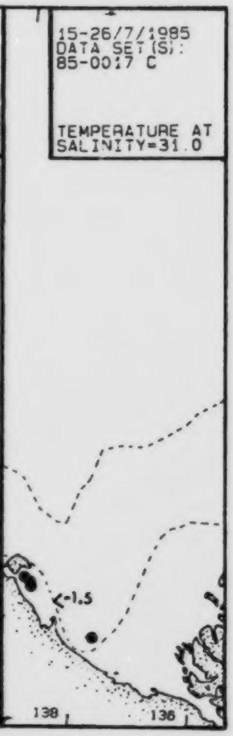
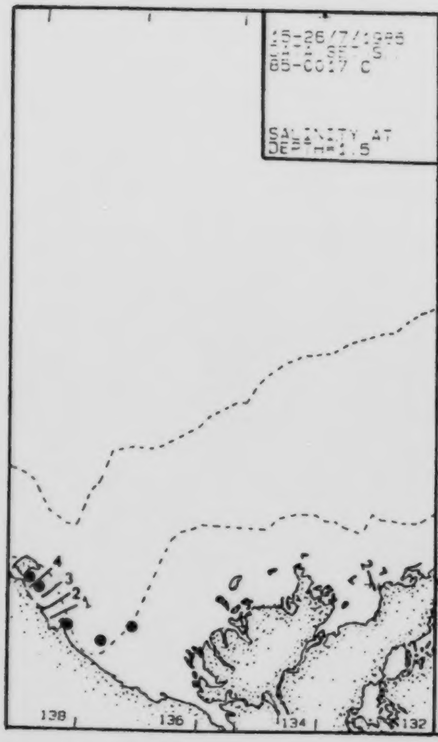
136


15-26/7/1985
DATA SET(S):
85-0017 C
TEMPERATURE AT
SALINITY=31.0
<-1.5
138
136


15-26/7/1985
DATA SET(S):
85-0017 C
SALINITY AT
DEPTH=1.5
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2
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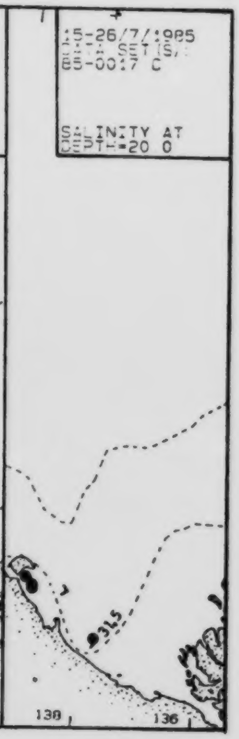
136
134
132


15-26/7/1985
DATA SET(S):
85-0017 C
SALINITY AT
DEPTH=20.0
31.5
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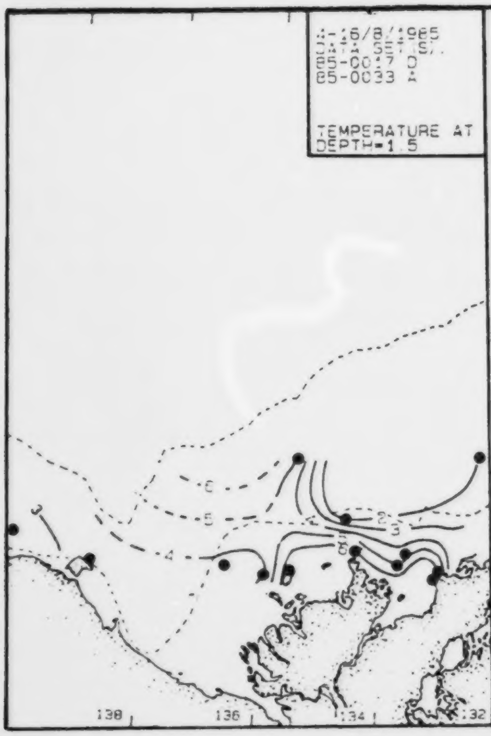
136


4-16/8/1985
DATA SET(S):
85-0017 D
85-0033 A
TEMPERATURE AT
DEPTH=1.5
6
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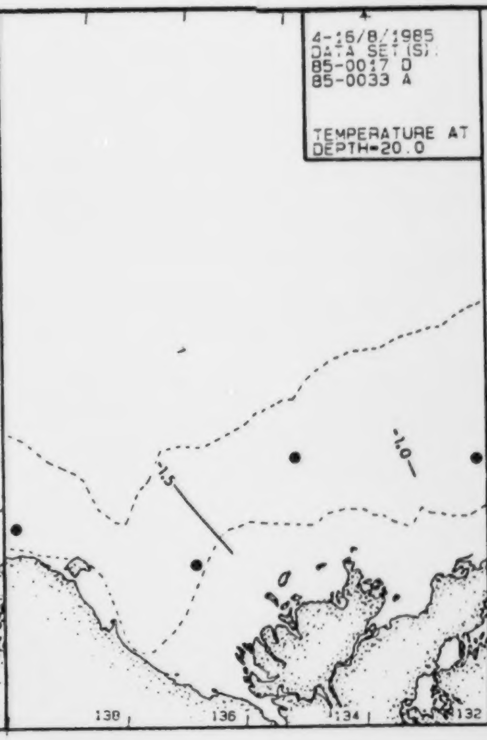
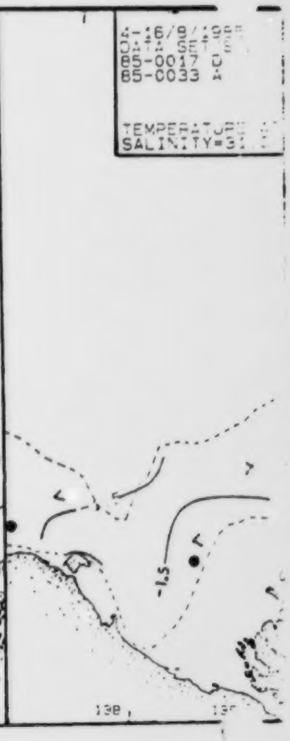
4
3
2
3
138
136
134
132


4-16/8/1985
DATA SET(S):
85-0017 D
85-0033 A
TEMPERATURE AT
DEPTH=20.0
-1.0
-1.5
138
136
134
132


4-16/8/1985
DATA SET(S)
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85-0033 A
TEMPERATURE AT
SALINITY=31
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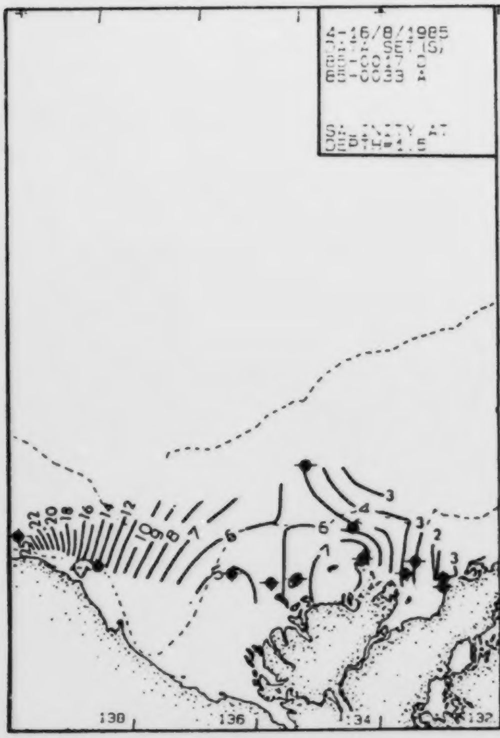
138


4-16/8/1985
DATA SET(S)
85-0017 D
85-0033 A
SALINITY AT
DEPTH=1.5
22
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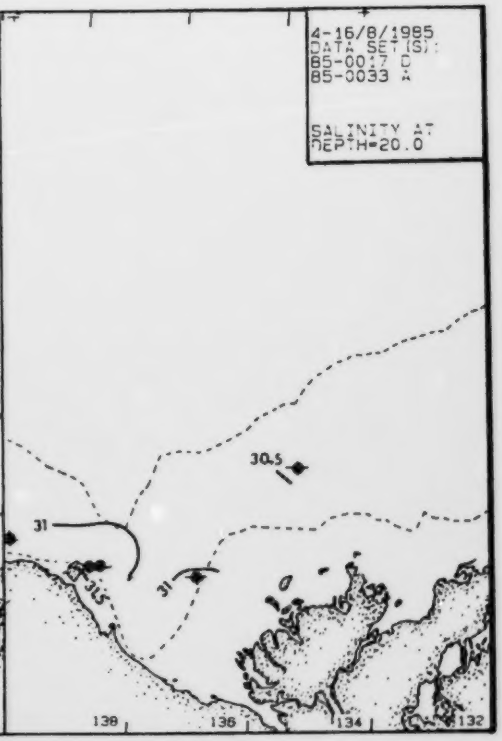
10
9
8
7
6
5
4
6
3
3
2
3
138
136
134
132


4-16/8/1985
DATA SET(S):
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SALINITY AT
DEPTH=20.0
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31
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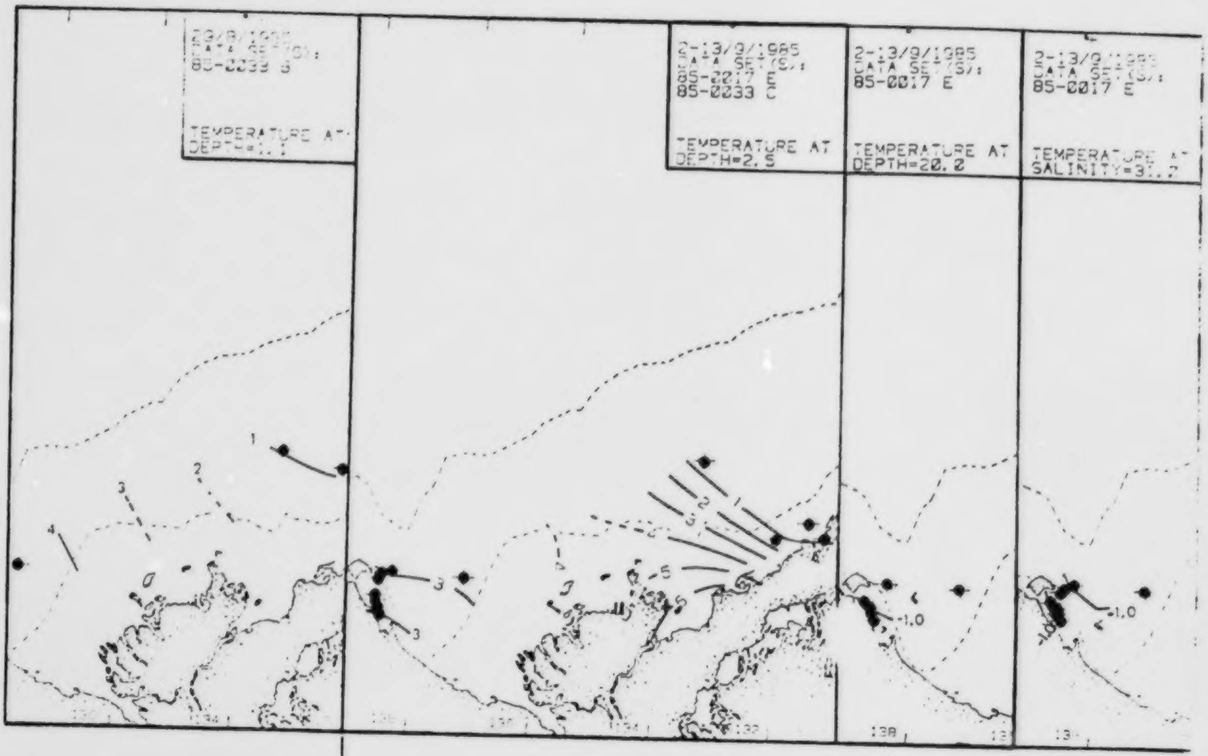
31.5
138
136
134
132


29/8/1985
DATA SET(S):
85-0033 B
TEMPERATURE AT
DEPTH=1.1
2-13/9/1985
DATA SET(S):
85-0017 E
85-0033 C
TEMPERATURE AT
DEPTH=2.5
2-13/9/1985
DATA SET(S):
85-0017 E
TEMPERATURE AT
DEPTH=20.2
2-13/9/1985
DATA SET(S):
85-0017 E
TEMPERATURE AT
SALINITY=31.7
1
2
3
4
3
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1
3
5
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-1.0
-1.0
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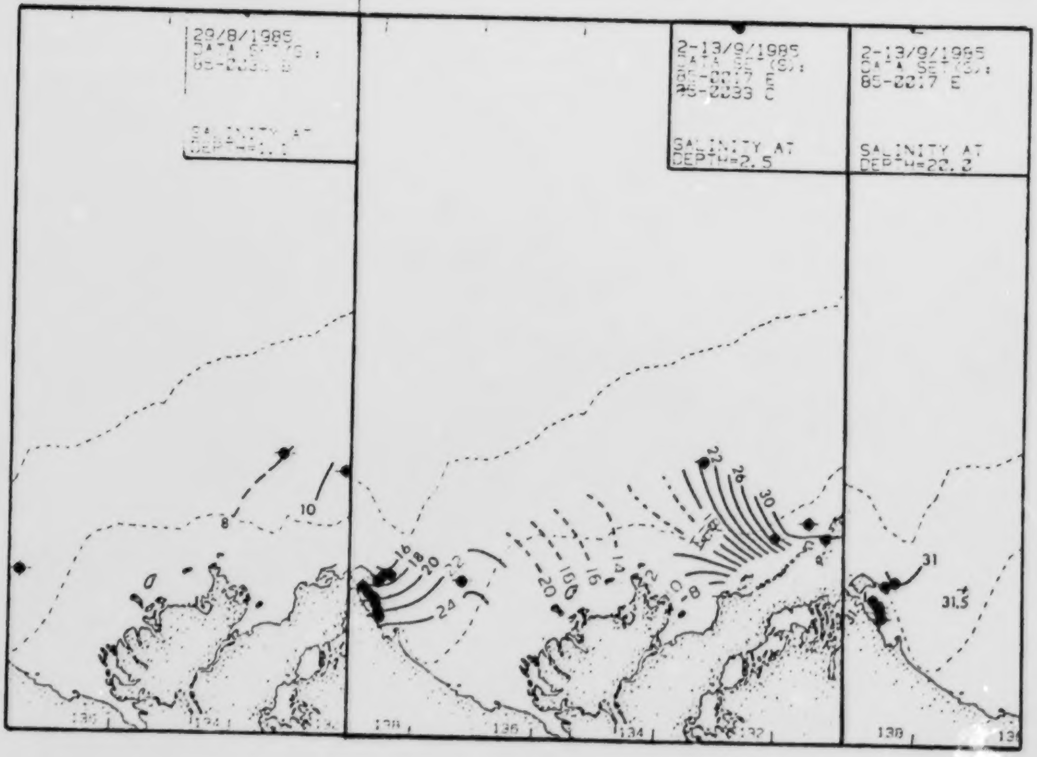
138
136
134
132
138
138


29/8/1985
DATA SET(S):
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2-13/9/1985
DATA SET(S):
85-0017 E
85-0033 C
SALINITY AT
DEPTH=2.5
2-13/9/1985
DATA SET(S):
85-0017 E
SALINITY AT
DEPTH=20.2
8
10
16
18
20
22
24
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10
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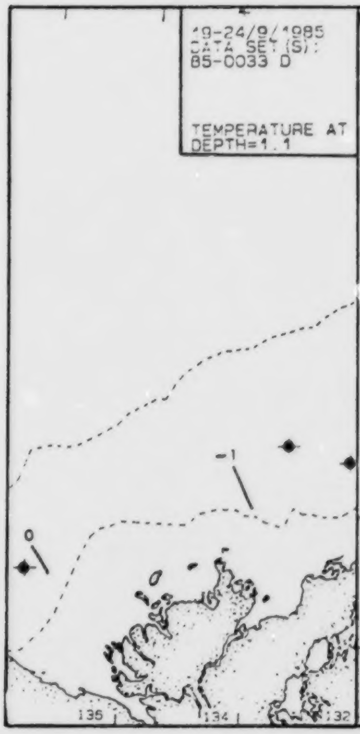
136
134
138
136
134
132
138


19-24/9/1985
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85-0033 D
TEMPERATURE AT
DEPTH=1.1
-1
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134
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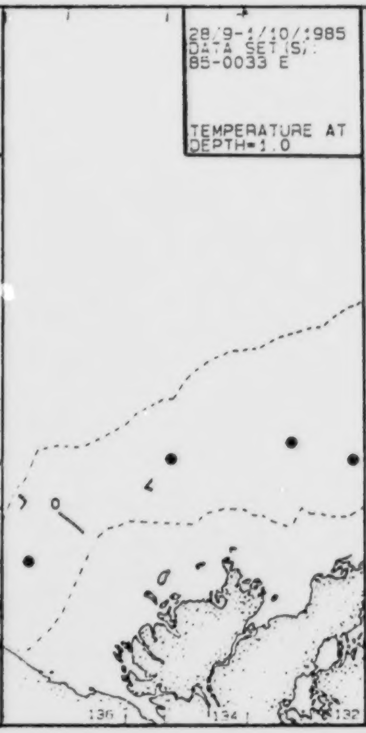
28/9-1/10/1985
DATA SET(S):
85-0033 E
TEMPERATURE AT
DEPTH=1.0
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134
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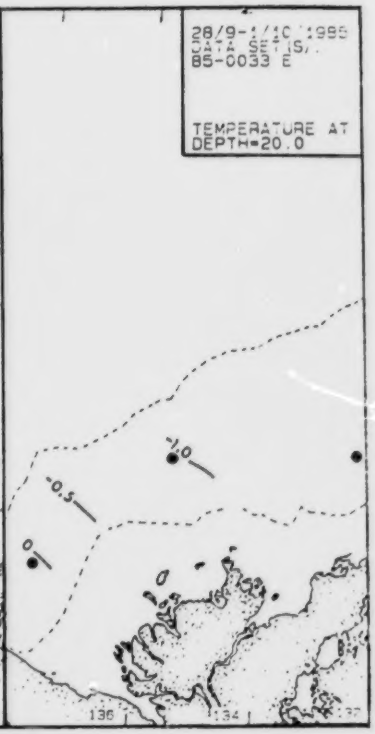
28/9-1/10/1985
DATA SET(S):
85-0033 E
TEMPERATURE AT
DEPTH=20.0
-1.0
-0.5
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134
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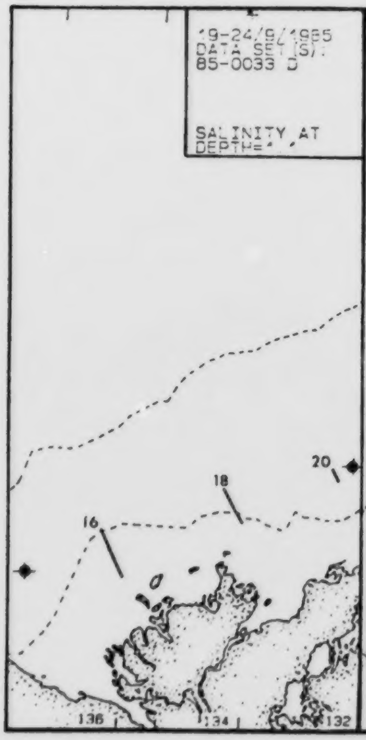
19-24/9/1985
DATA SET(S):
85-0033 D
SALINITY AT
DEPTH=1.1
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16
136
134
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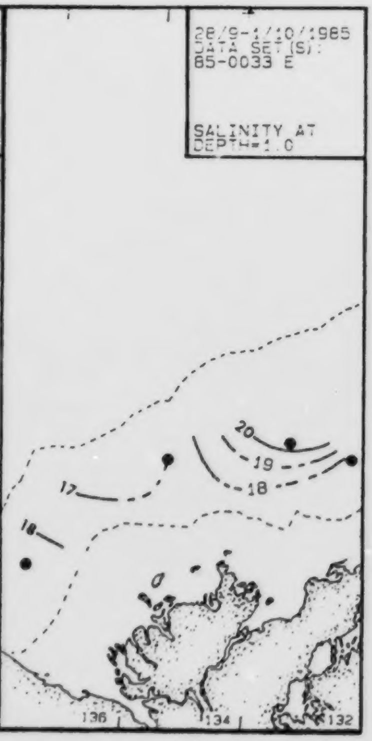
28/9-1/10/1985
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SALINITY AT
DEPTH=1.0
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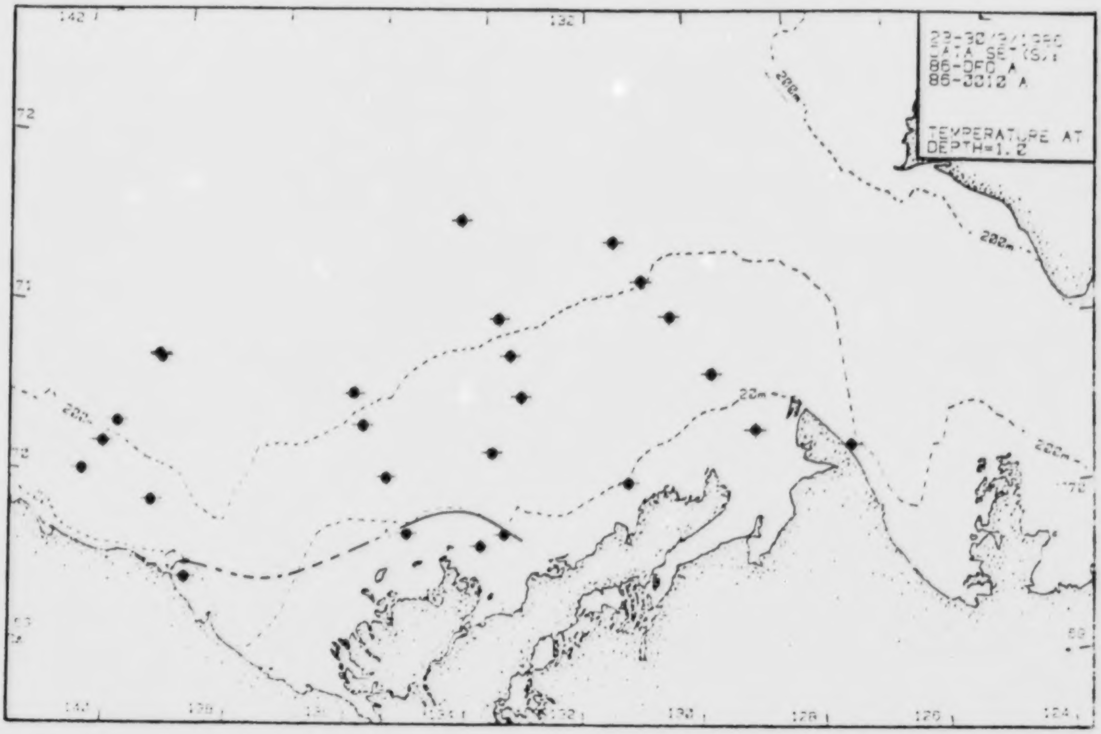
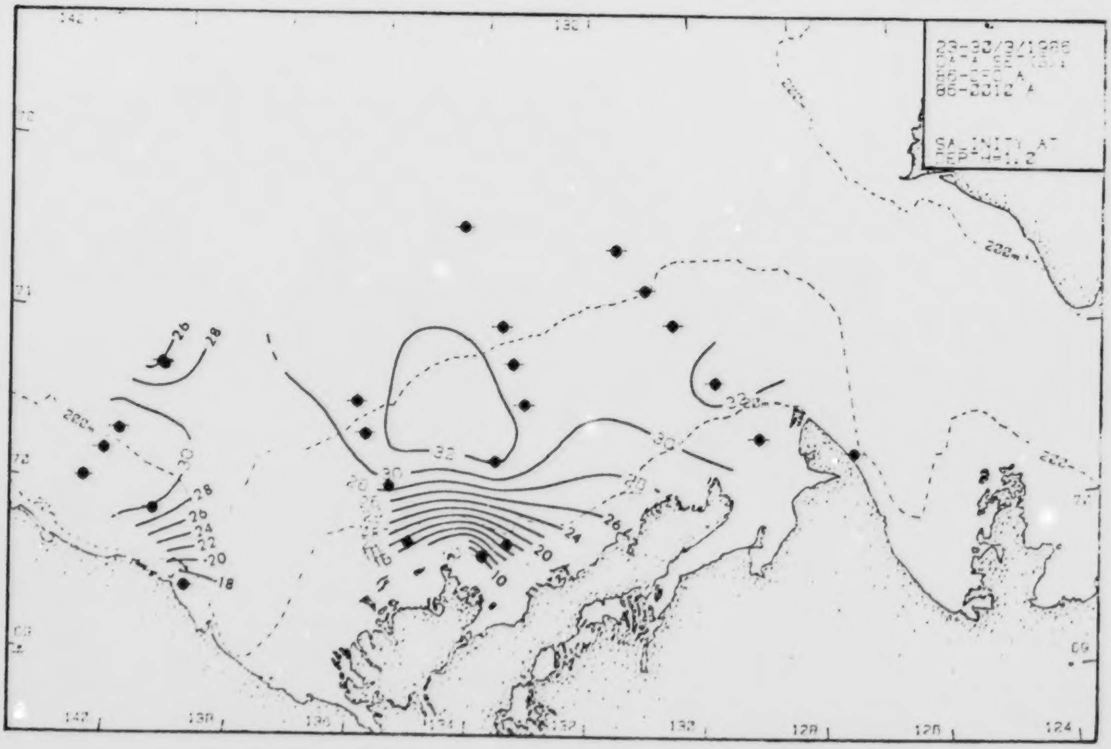

23-30/3/1986
DATA SET(S):
86-DFO A
86-0012 A
TEMPERATURE AT
DEPTH=1.2
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
200m
200m
20m
200m


23-30/3/1986
DATA SET(S):
86-DFO A
86-0012 A
SALINITY AT
DEPTH=1.2
142
132
140
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136
134
132
130
128
126
124
72
71
70
69
200m
200m
200m
200m
26
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32
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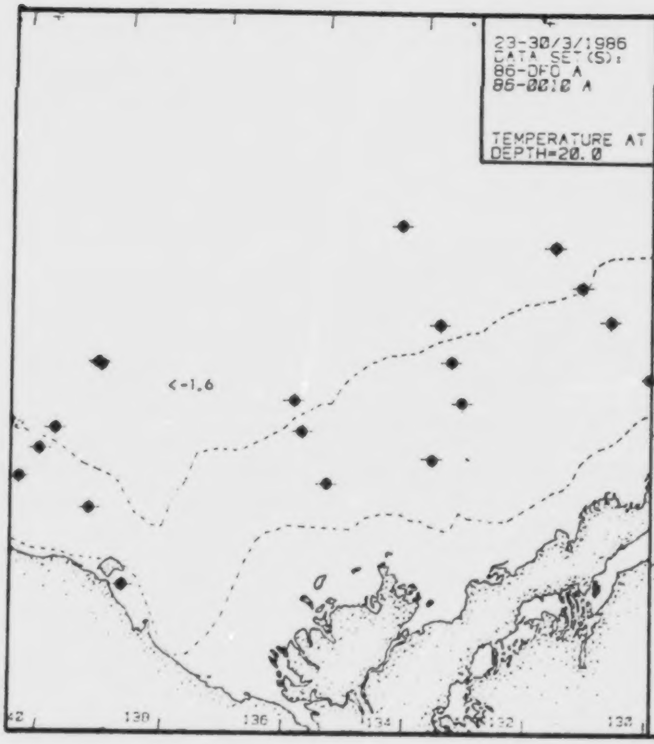
16


23-30/3/1986
DATA SET(S):
86-DFO A
86-0010 A
TEMPERATURE AT
DEPTH=20.0
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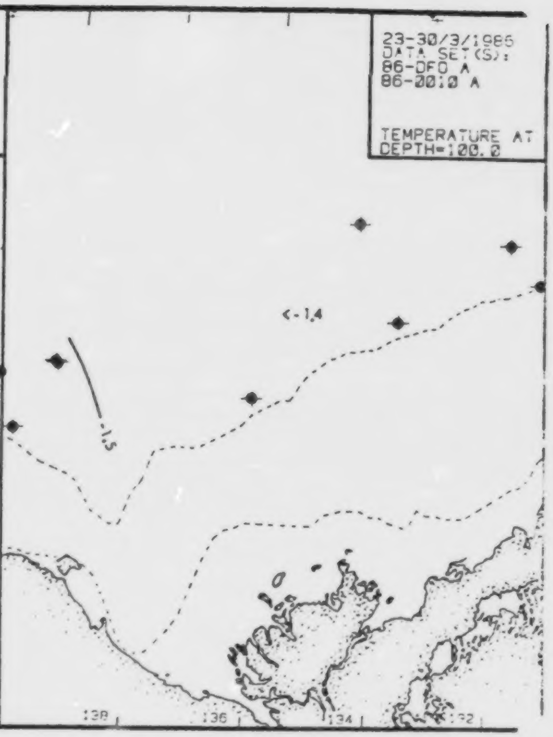
138
136
134
132
130


23-30/3/1986
DATA SET(S):
86-DFO A
86-0010 A
TEMPERATURE AT
DEPTH=100.0
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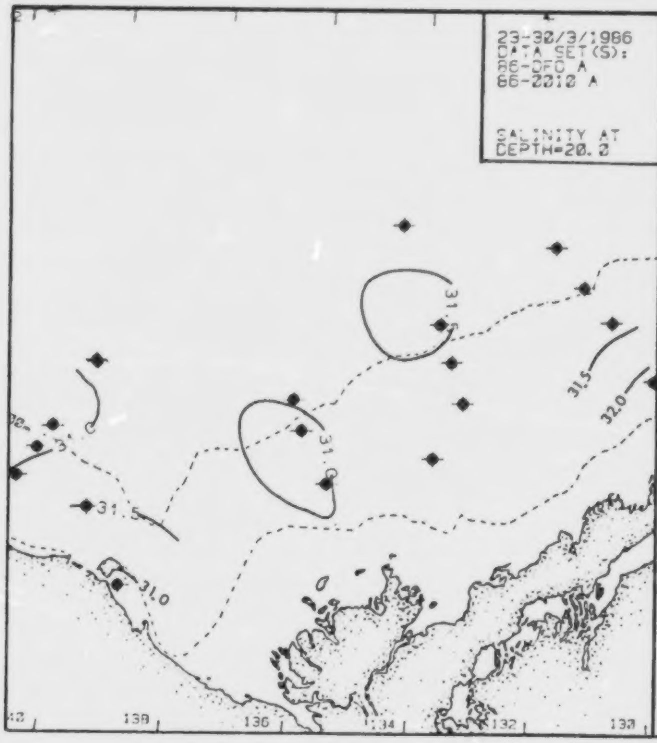
138
136
134
132


23-30/3/1986
DATA SET(S):
86-DFO A
86-0010 A
SALINITY AT
DEPTH=20.0
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31.0
31.5
32.0
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31.0
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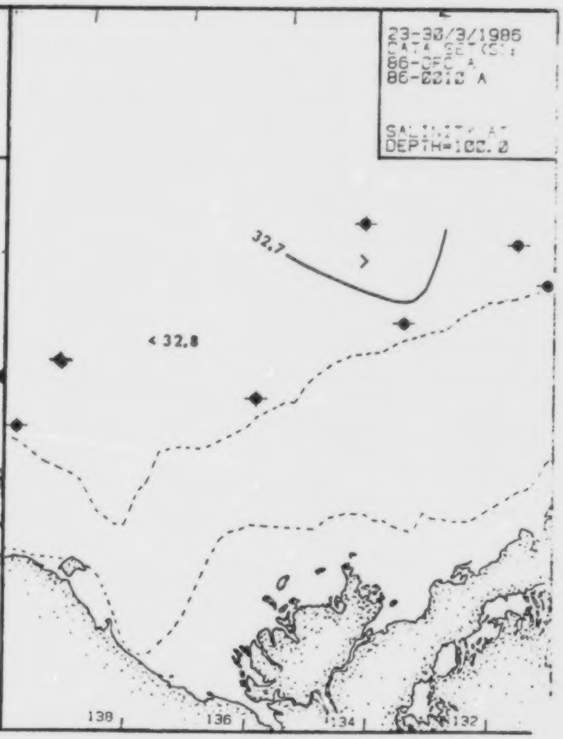
130


23-30/3/1986
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86-0010 A
SALINITY AT
DEPTH=100.0
32.7
7
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138
136
134
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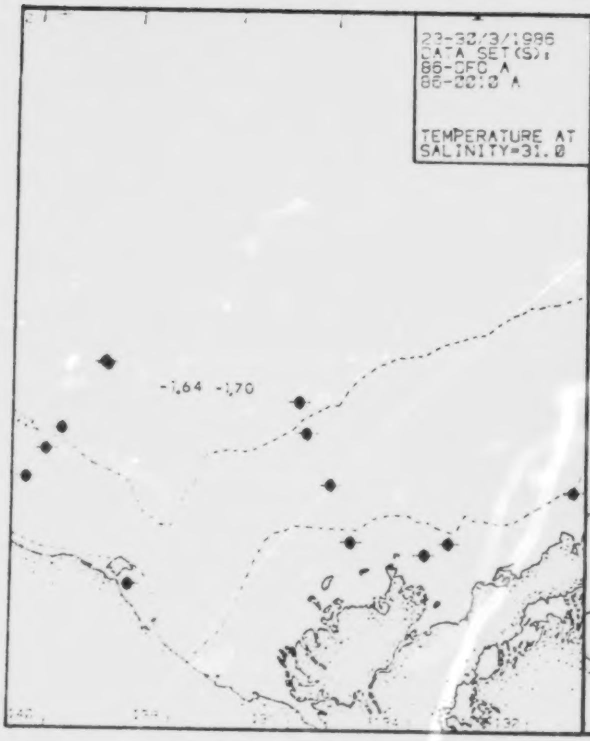
23-30/3/1986
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86-2010 A
TEMPERATURE AT
SALINITY=31.0
-1.64 -1.70
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138
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134
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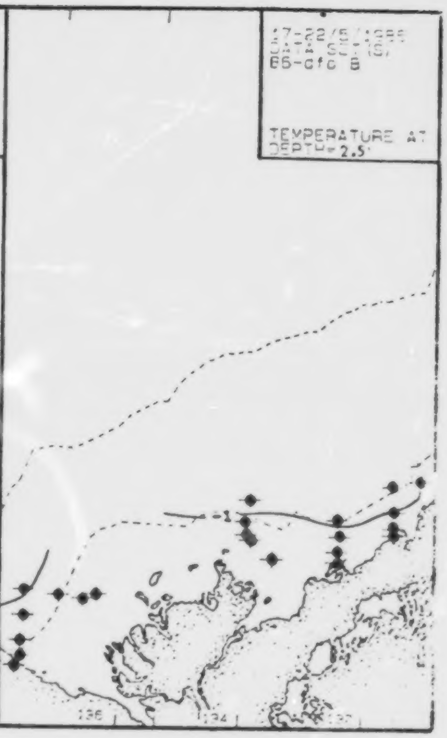
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DEPTH=2.5
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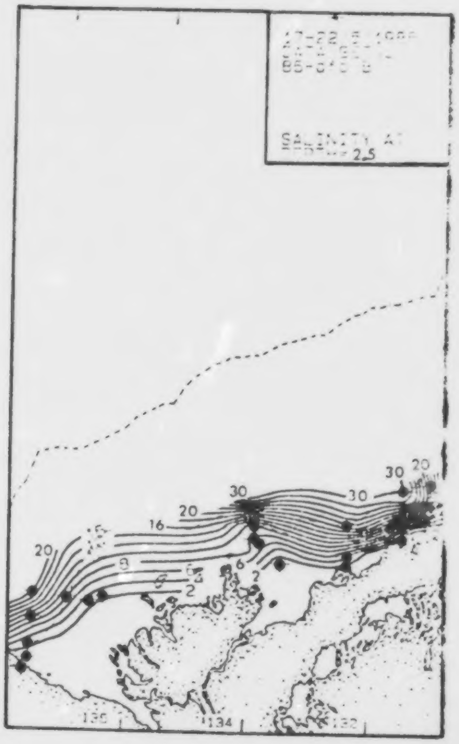
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SALINITY AT
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2
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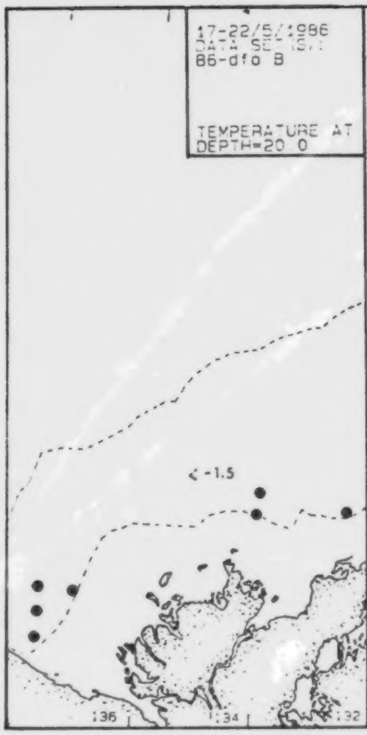
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TEMPERATURE AT
DEPTH=20.0
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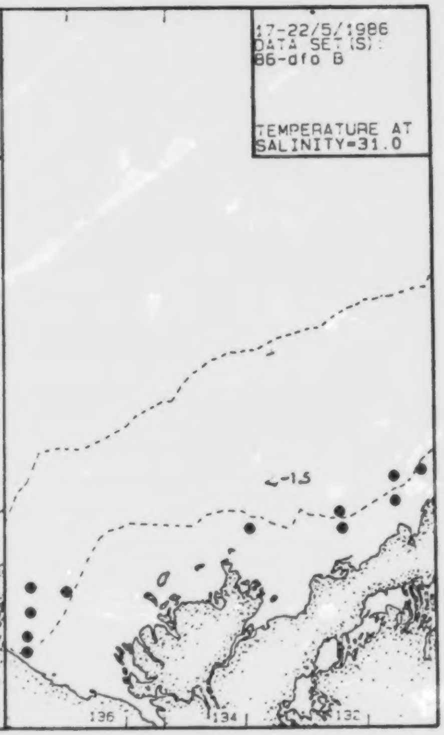
134
132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SALINITY=31.0
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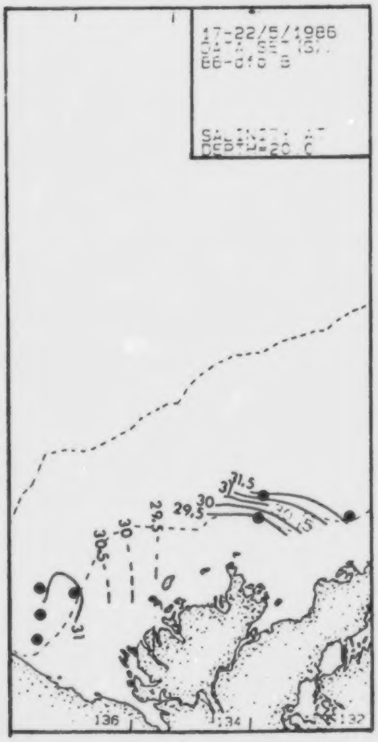
134
132


17-22/5/1986
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SALINITY AT
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30
29.5
30.5
30
29.5
31
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134
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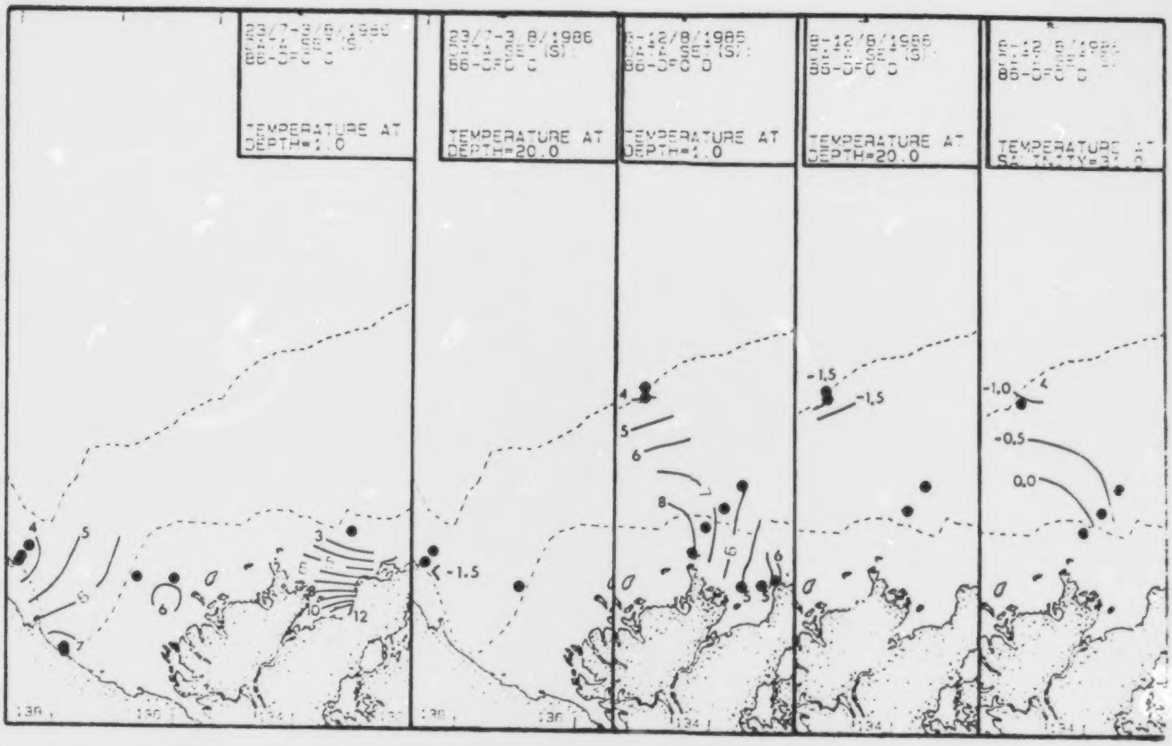
23/7-3/8/1986
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86-DFO D
TEMPERATURE AT
DEPTH=1.0
23/7-3/8/1986
DATA SET(S):
86-DFO D
TEMPERATURE AT
DEPTH=20.0
8-12/8/1986
DATA SET(S):
86-DFO D
TEMPERATURE AT
DEPTH=1.0
8-12/8/1986
DATA SET(S):
86-DFO D
TEMPERATURE AT
DEPTH=20.0
8-12/8/1986
86-DFO D
TEMPERATURE AT
SALINITY=31.0
4
5
6
7
3
8
10
12
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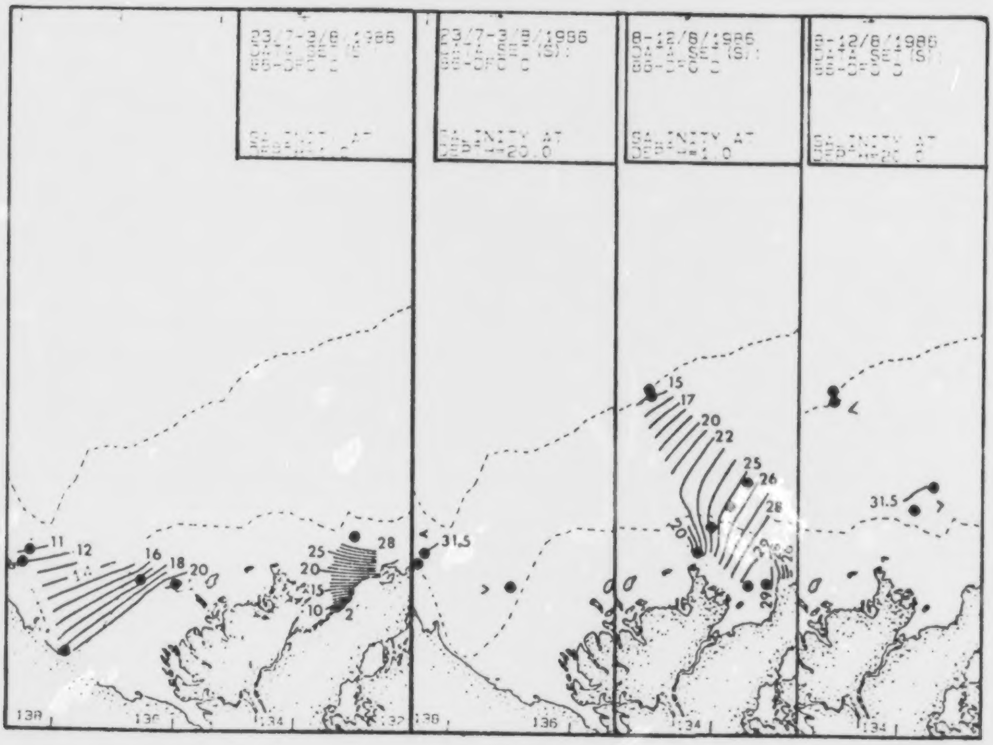
-1.0
-0.5
0.0
138
136
134


23/7-3/8/1986
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23/7-3/8/1986
DATA SET(S):
86-DFO D
SALINITY AT
DEPTH=20.0
8-12/8/1986
DATA SET(S):
86-DFO D
SALINITY AT
DEPTH=1.0
8-12/8/1986
DATA SET(S):
86-DFO D
SALINITY AT
DEPTH=20.0
11
12
14
16
18
20
25
28
15
10
2
31.5
17
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26
29
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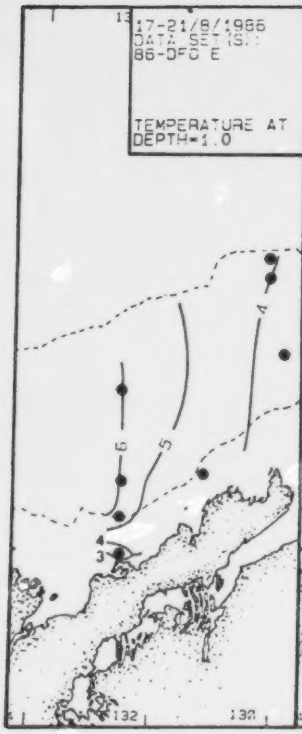
134
132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17-21/8/1986
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4
4
3
132
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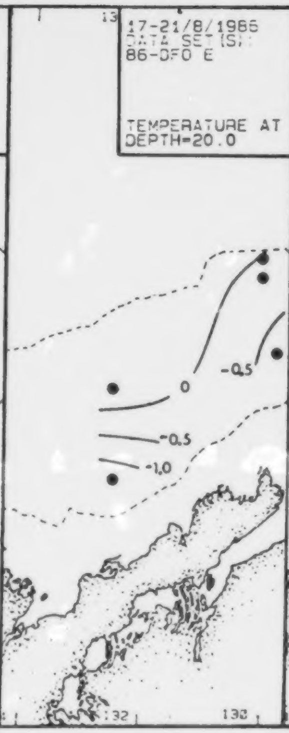
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17-21/8/1986
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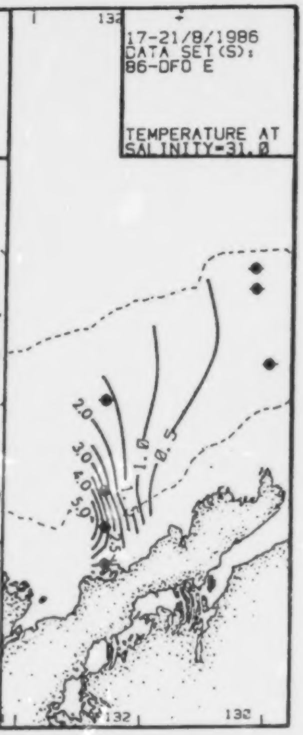
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17-21/8/1986
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3.0
4.0
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0.5
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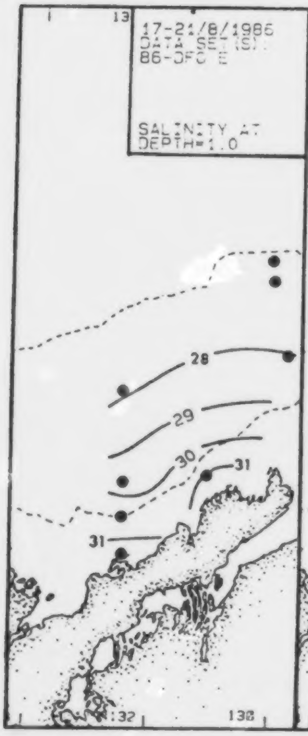
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17-21/8/1986
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SALINITY AT
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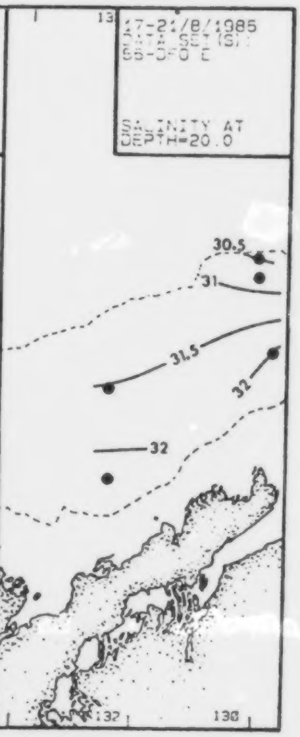
31
31
132
130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17-21/8/1986
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31.5
32
32
132
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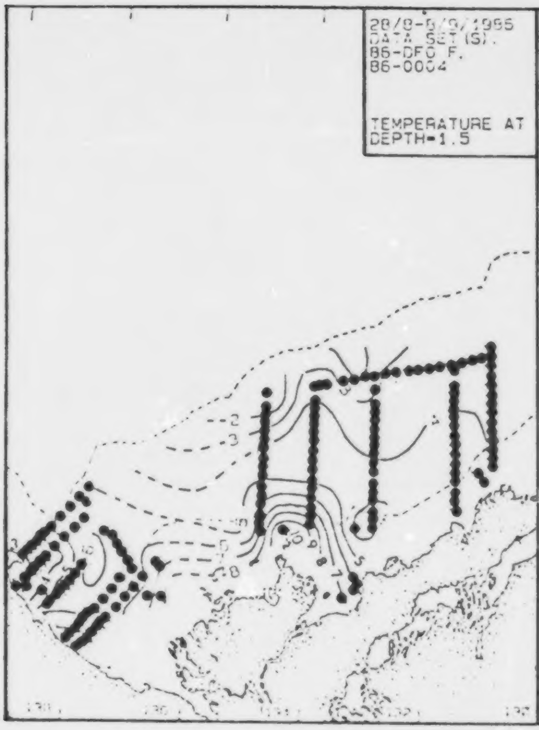
28/8-8/9/1986
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86-0004
TEMPERATURE AT
DEPTH=1.5
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3
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136
134
132
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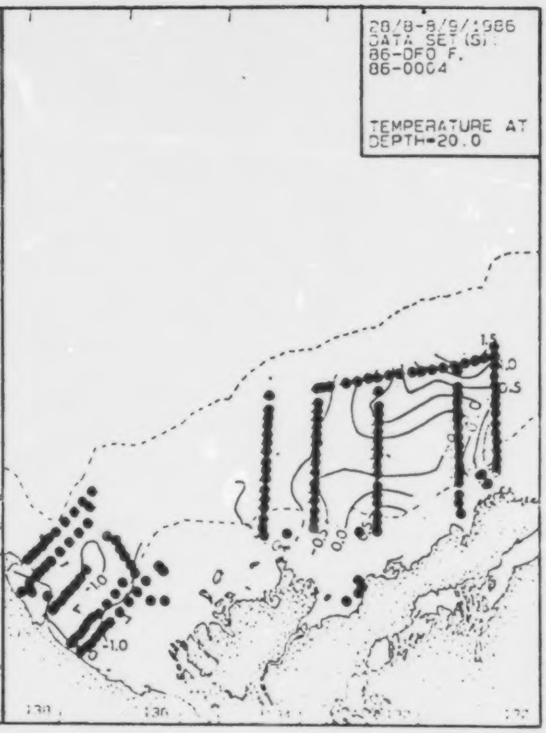
28/8-8/9/1986
DATA SET(S):
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86-0004
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-1.0
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136
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132
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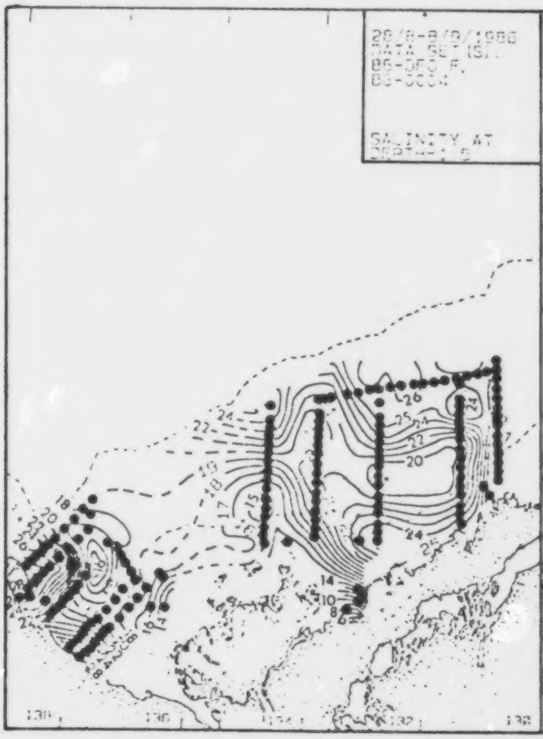
28/8-8/9/1986
DATA SET(S):
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86-0004
SALINITY AT
DEPTH=1.5
26
25
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22
20
18
17
14
10
8
6
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136
134
132
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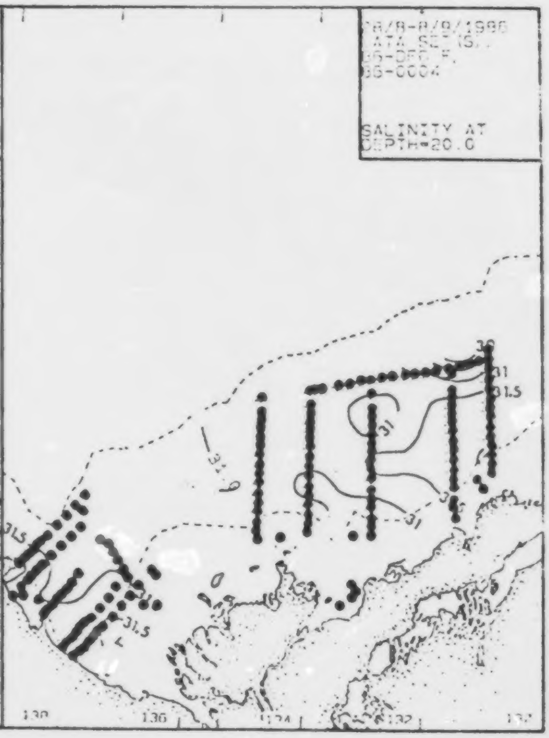
28/8-8/9/1986
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SALINITY AT
DEPTH=20.0
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31
31.5
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136
134
132
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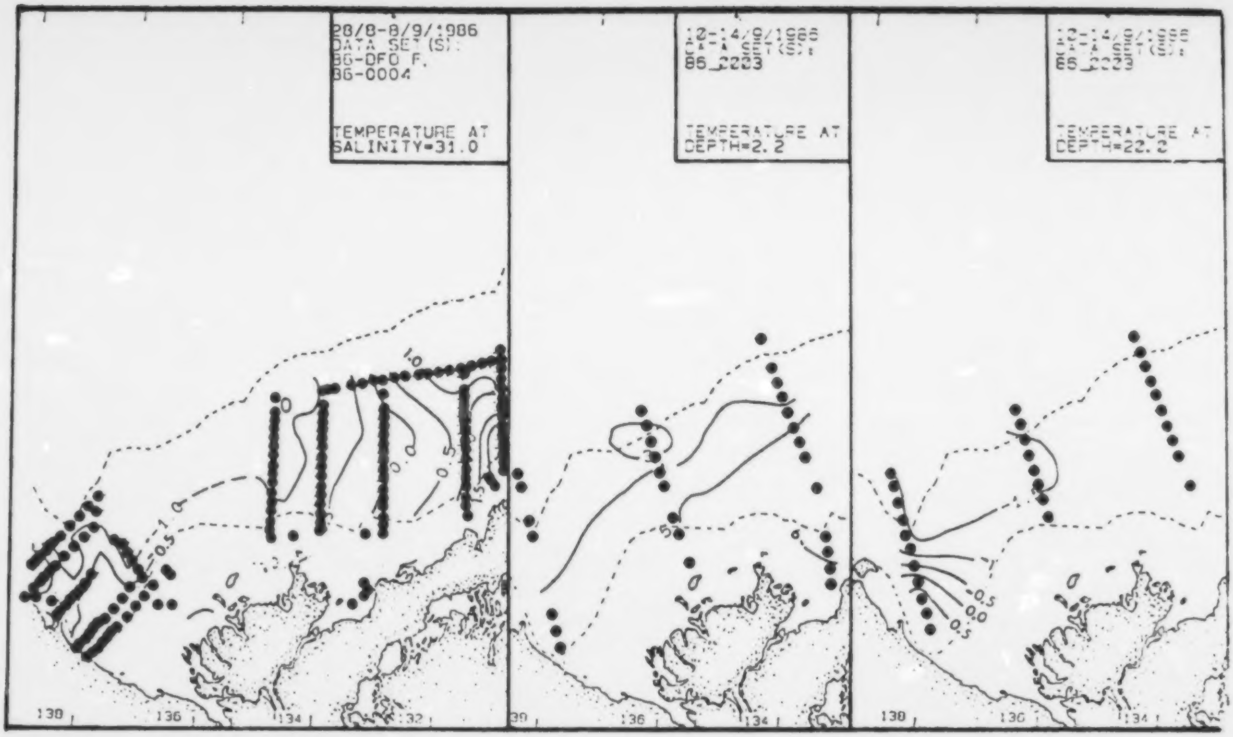
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DATA SET(S):
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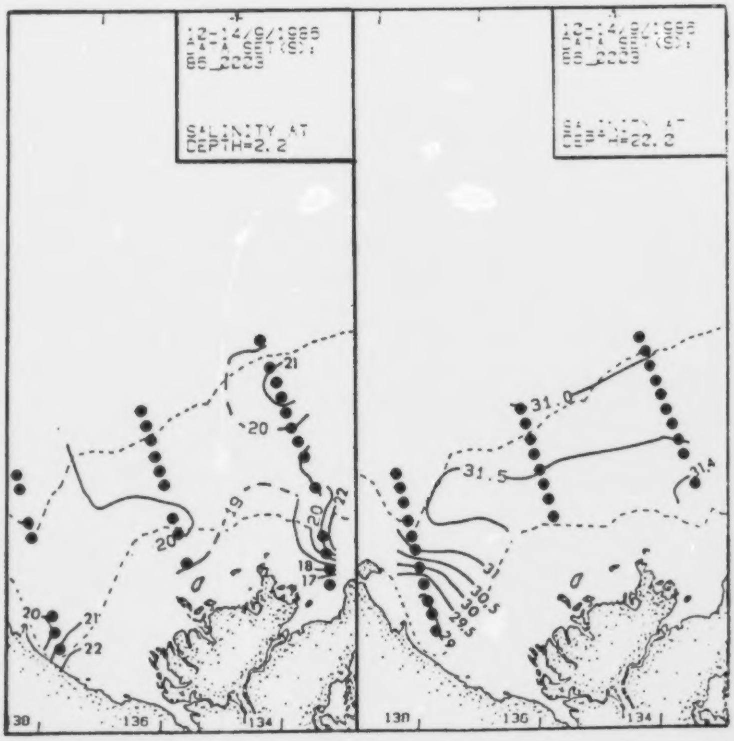
86-0004
TEMPERATURE AT
SALINITY=31.0
12-14/9/1986
DATA SET(S):
86_2223
TEMPERATURE AT
DEPTH=2.2
12-14/9/1986
DATA SET(S):
86_2223
TEMPERATURE AT
DEPTH=22.2
1.0
0
0.0
0.5
-1.0
-0.5
1.5
-0.5
0.0
0.5
138
136
134
132


12-14/9/1986
DATA SET(S):
86_2223
SALINITY AT
DEPTH=2.2
12-14/9/1986
DATA SET(S):
86_2223
SALINITY AT
DEPTH=22.2
21
20
19
20
22
18
17
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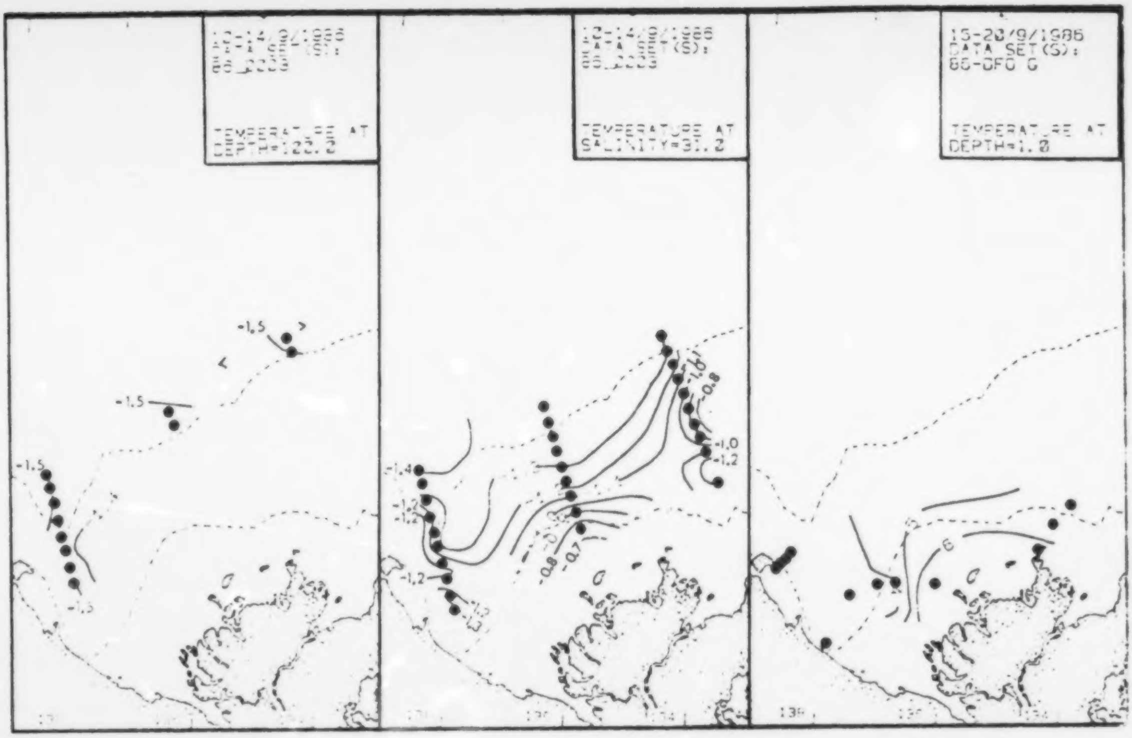
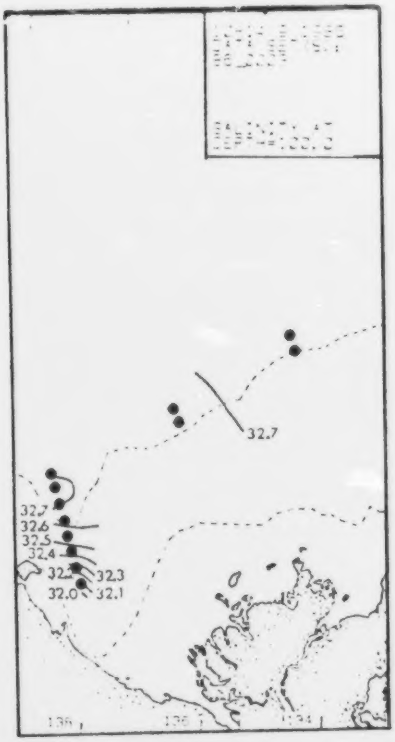
21
22
31.0
31.5
31.4
31
30.5
30
29.5
29
138
136
134


12-14/9/1986
DATA SET(S):
86_2203
TEMPERATURE AT
DEPTH=120.0
-1.5
-1.5
-1.5
-1.5
12-14/9/1986
DATA SET(S):
86_2203
TEMPERATURE AT
SALINITY=31.2
-1.4
-1.2
-1.2
-1.2
-0.8
-0.7
-1.0
-0.8
-1.0
-1.2
15-20/9/1986
DATA SET(S):
86-DFO G
TEMPERATURE AT
DEPTH=1.0
6
138
136
134


12-14/9/1986
DATA SET(S):
86_2203
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DEPTH=120.0
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32.7
32.6
32.5
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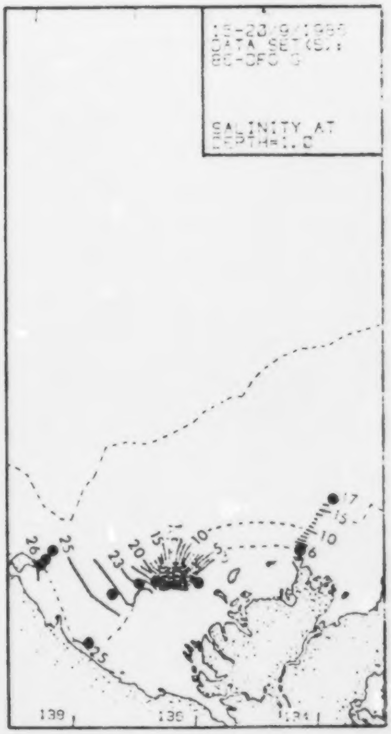
32.3
32.0
32.1
138
136
134


15-20/9/1986
DATA SET(S):
86-DFO G
SALINITY AT
DEPTH=1.0
26
25
23
20
15
10
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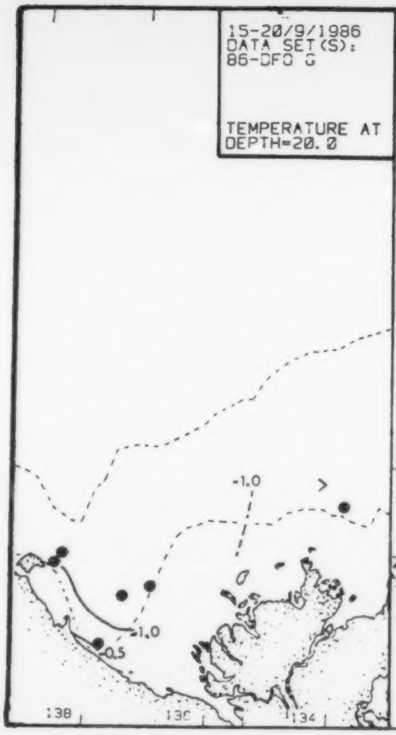
15
10
6
25
138
136
134


15-20/9/1986
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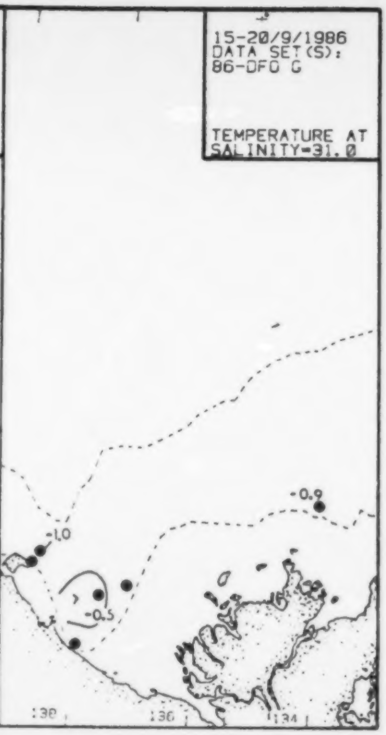
TEMPERATURE AT
DEPTH=20.0
-1.0
>
-1.0
-0.5
138
136
134


15-20/9/1986
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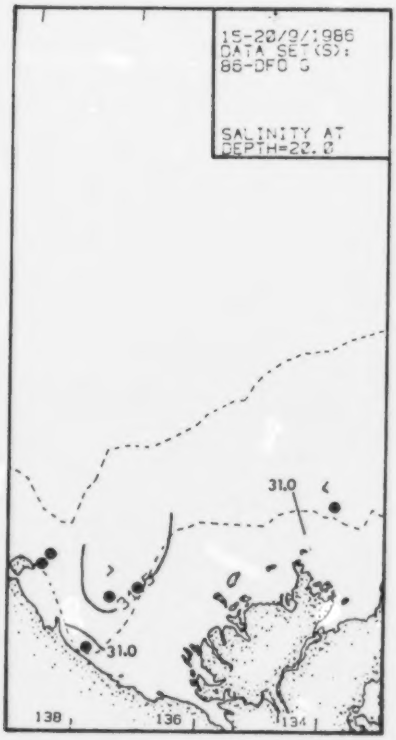
138
136
134


15-20/9/1986
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DEPTH=20.0
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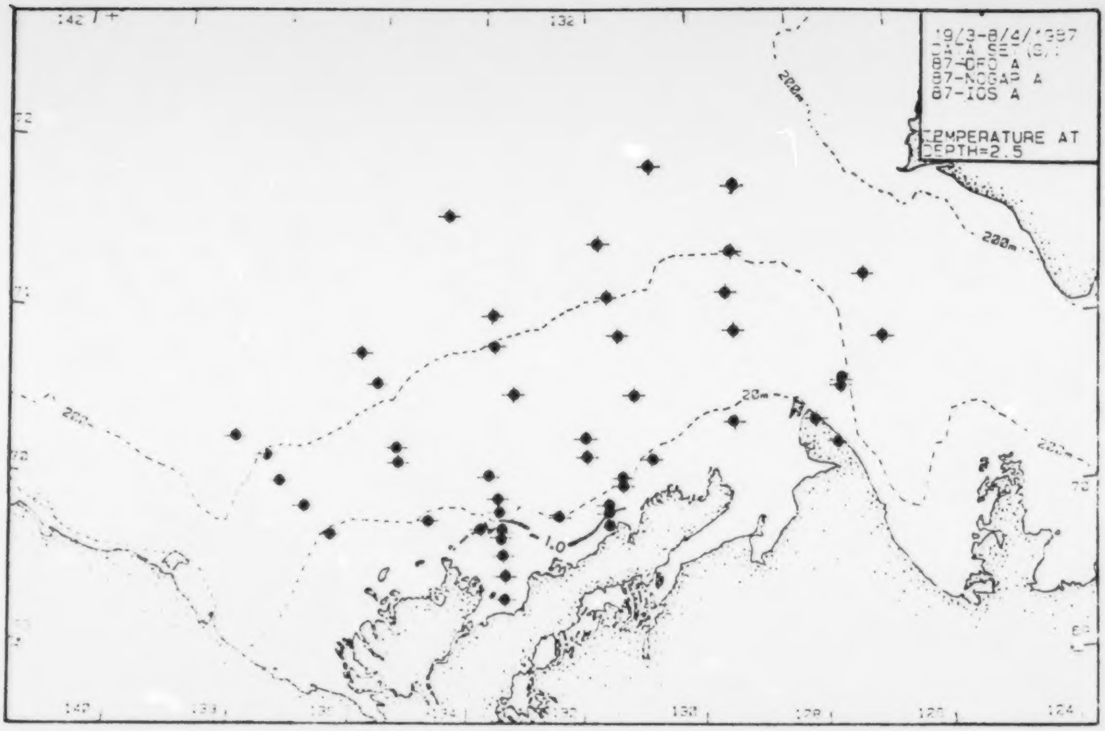
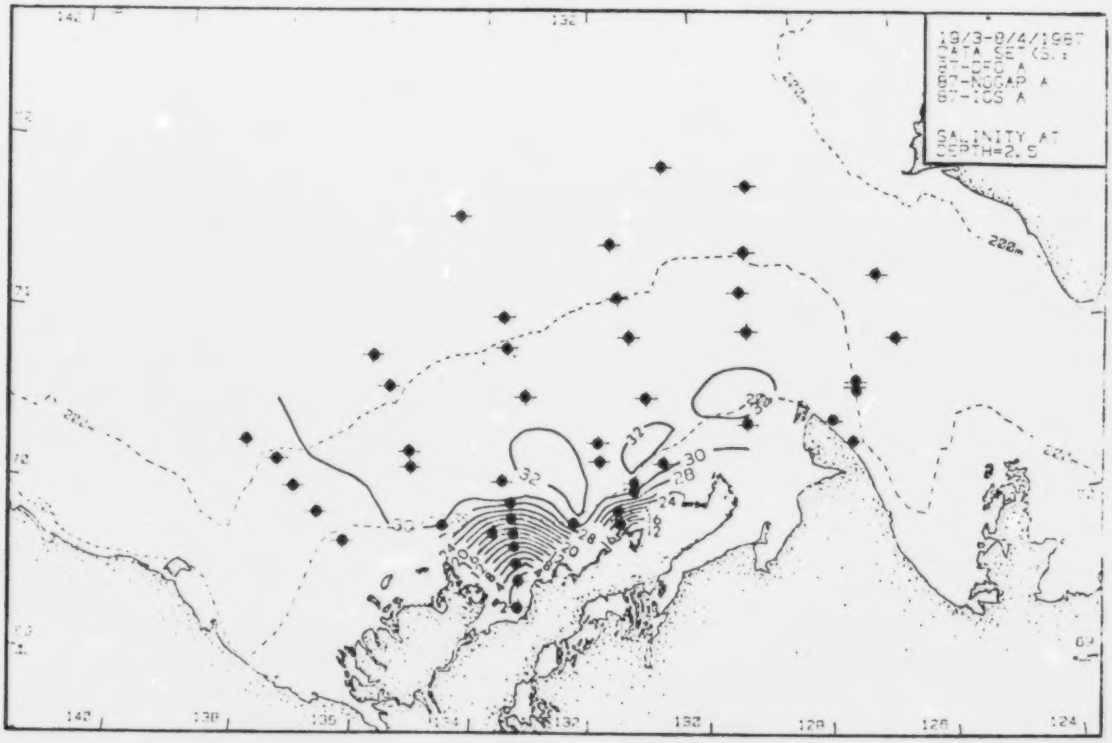
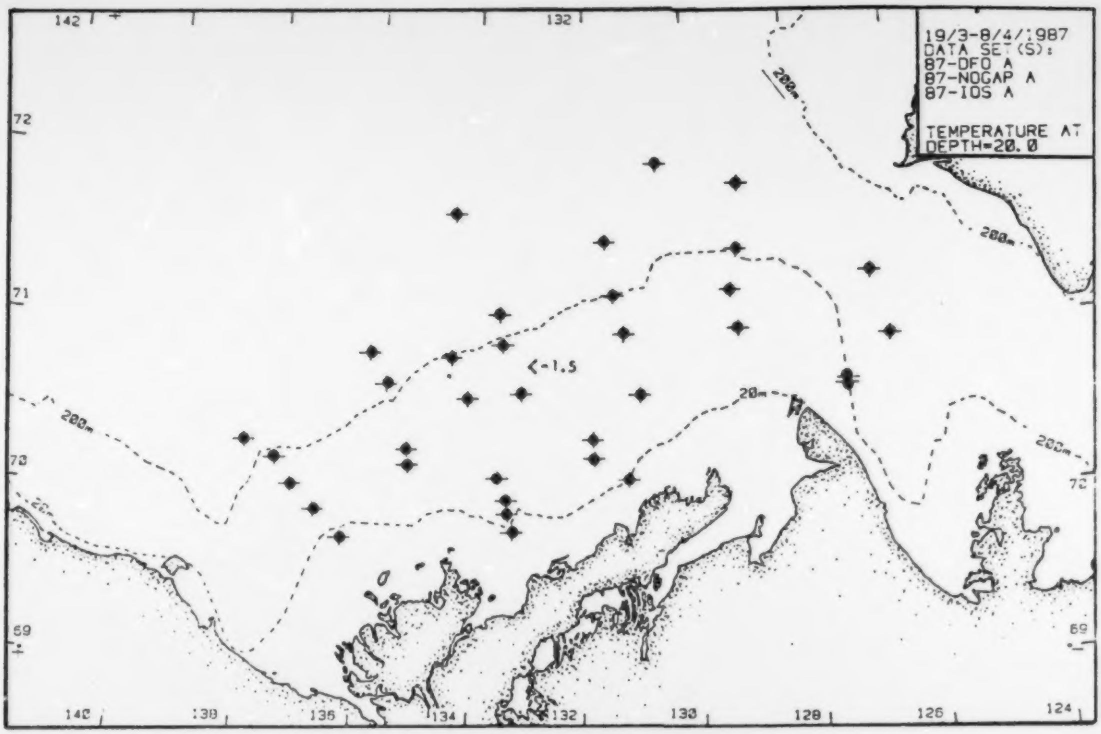
>
31.5
>31.0
138
136
134


19/3-8/4/1987
DATA SET(S):
87-DFO A
87-NOGAP A
87-IOS A
TEMPERATURE AT
DEPTH=2.5
200m
1.0
142
132
128
126
124
72
70
69


19/3-8/4/1987
DATA SET(S):
87-DFO A
87-NOGAP A
87-IOS A
SALINITY AT
DEPTH=2.5
200m
32
30
28
24
142
138
136
134
132
128
126
124
72
70
69


19/3-8/4/1987
DATA SET(S):
87-DFO A
87-NOGAP A
87-IOS A
TEMPERATURE AT
DEPTH=20.0
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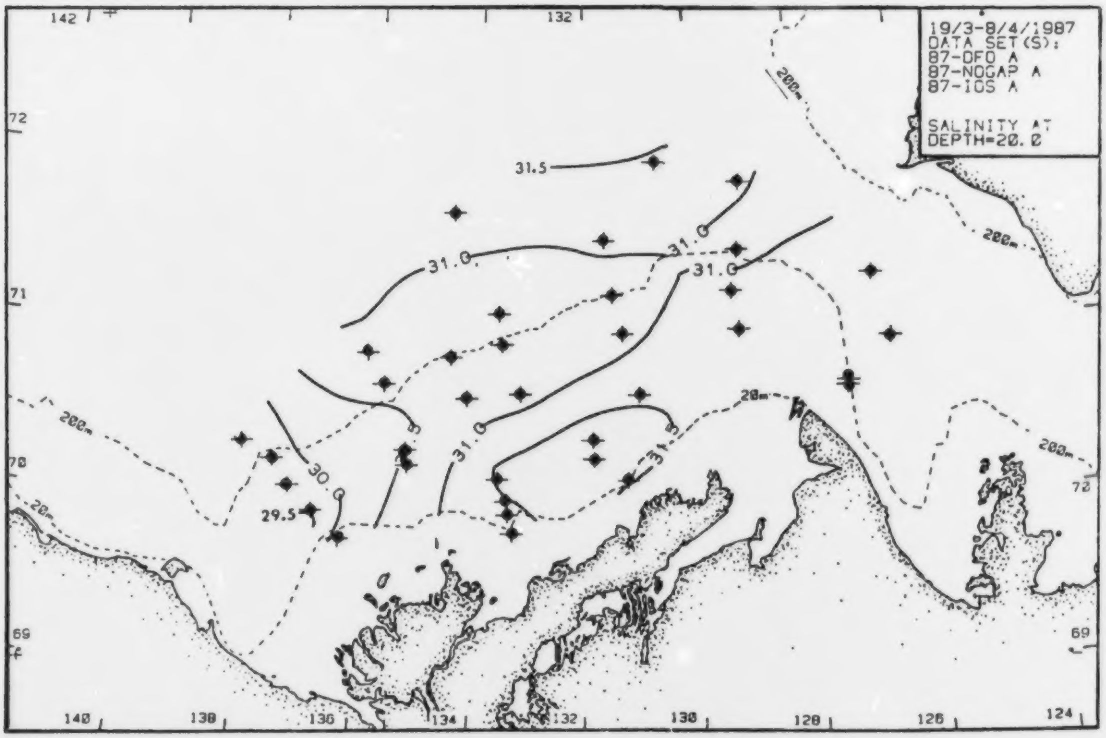
132
72
71
70
69
200m
20m
<-1.5
140
138
136
134
132
130
128
126
124


19/3-8/4/1987
DATA SET(S):
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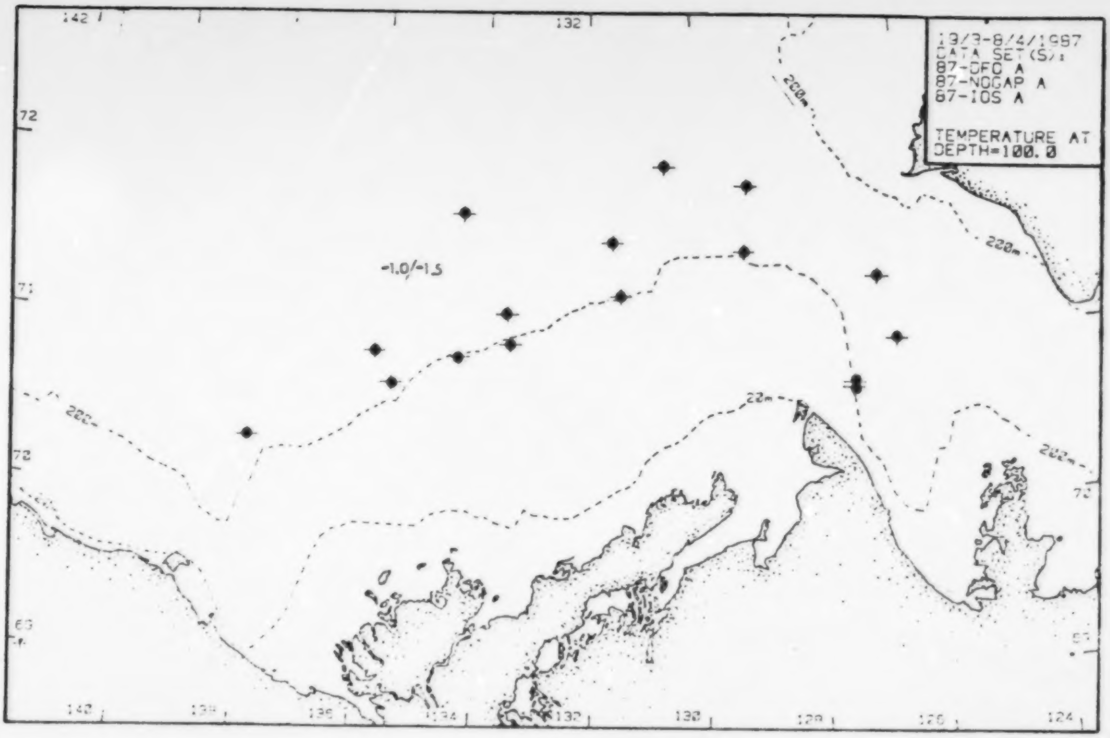
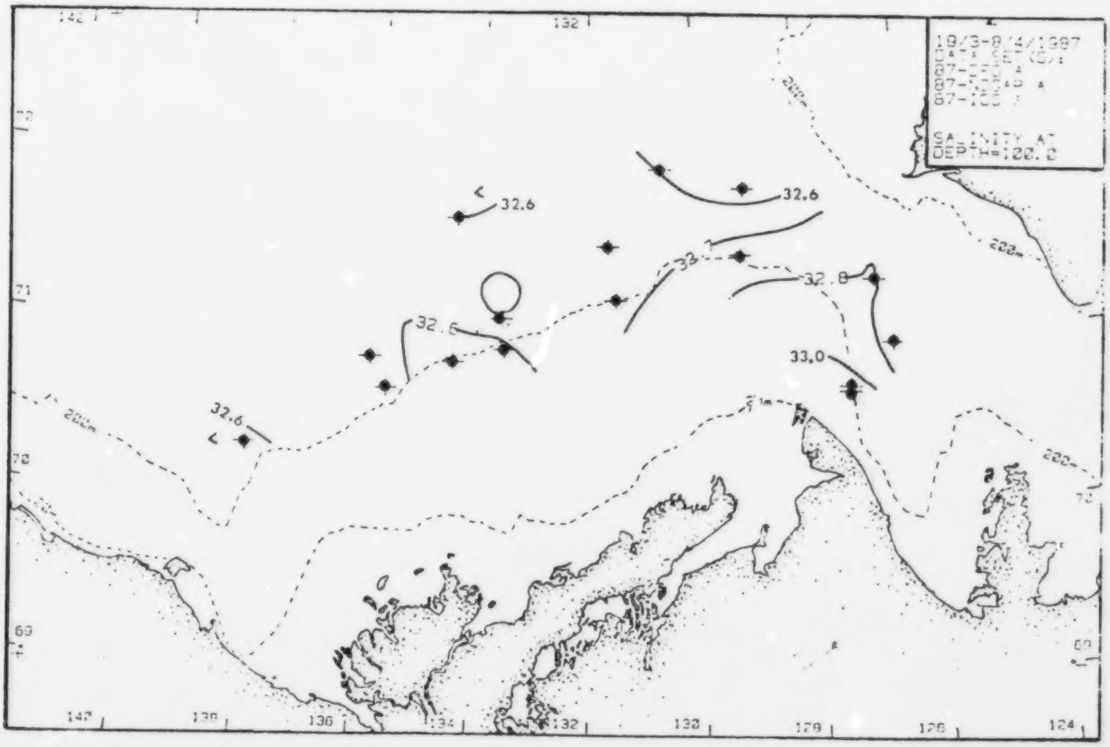
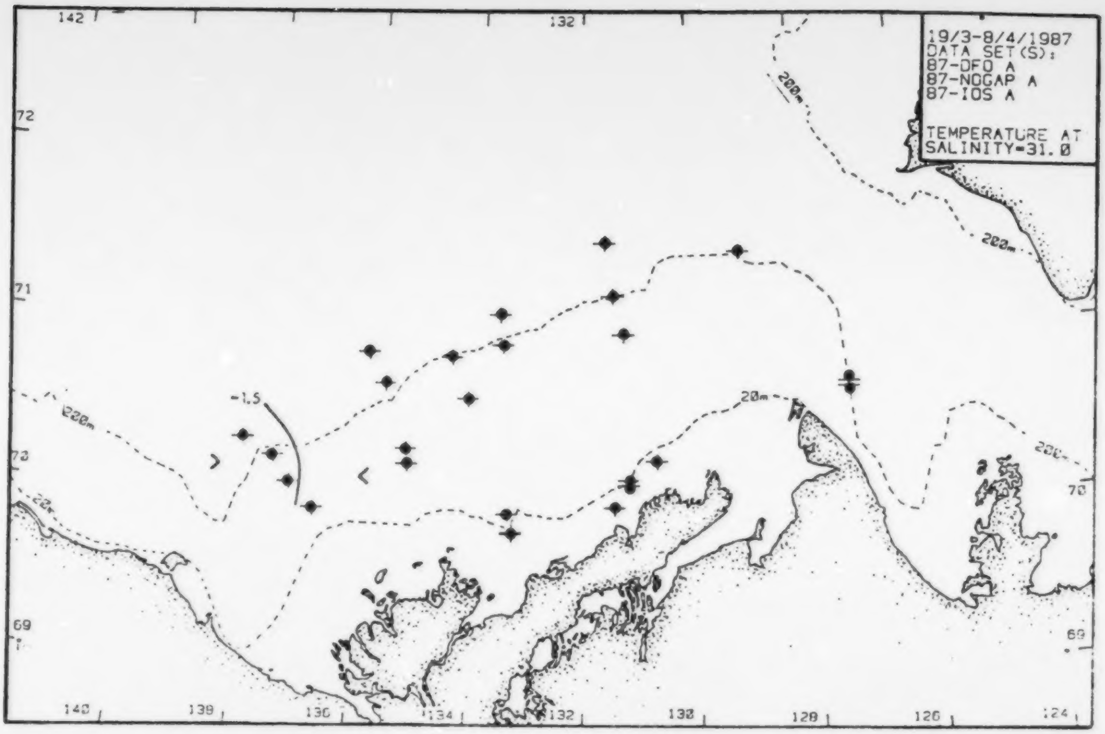
87-NOGAP A
87-IOS A
SALINITY AT
DEPTH=20.0
142
132
72
71
70
69
200m
20m
31.5
31.0
31.0
31.0
31.0
31.5
30.0
29.5
140
138
136
134
132
130
128
126
124


19/3-8/4/1987
DATA SET(S):
87-DFO A
87-NOGAP A
87-IOS A
TEMPERATURE AT
DEPTH=100.0
-1.0/-1.5
200m
220m
222m
22m
142
132
72
71
69
140
138
136
134
130
128
126
124


19/3-8/4/1987
DATA SET(S):
87-DFO A
87-NOGAP A
87-IOS A
SALINITY AT
DEPTH=100.0
32.6
32.7
32.8
33.0
222m
142
132
72
71
69
140
138
136
134
130
128
126
124


19/3-8/4/1987
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87-NOGAP A
87-IOS A
TEMPERATURE AT
SALINITY=31.0
142
132
72
71
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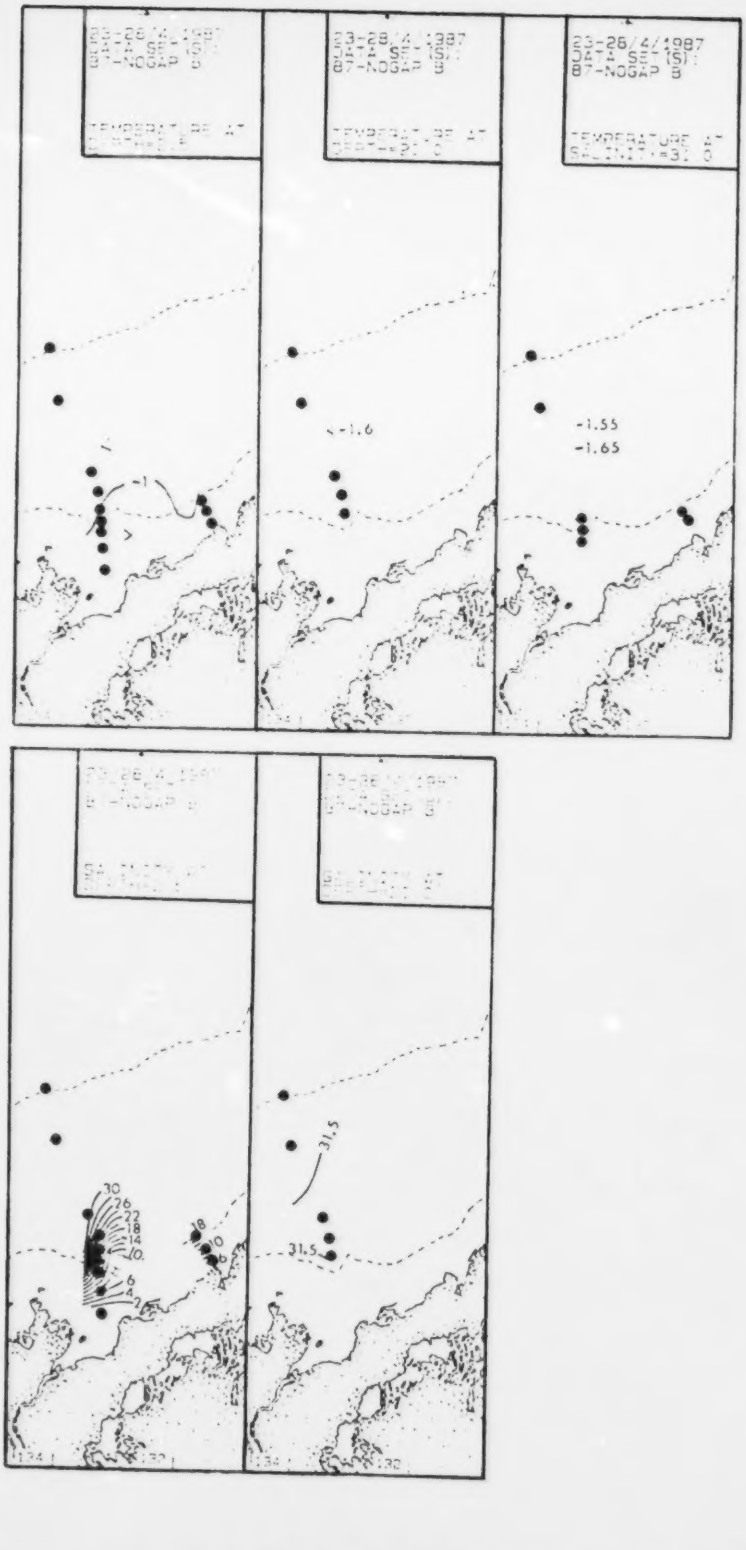
69
70
69
200m
20m
-1.5
140
138
136
134
132
130
128
126
124


23-28/4/1987
DATA SET(S):
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TEMPERATURE AT
-1
23-28/4/1987
DATA SET(S):
87-NOGAP B
TEMPERATURE AT
-1.6
23-28/4/1987
DATA SET(S):
87-NOGAP B
TEMPERATURE AT
SALINITY=31.0
-1.55
-1.65
87-NOGAP B
30
26
22
18
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6
4
2
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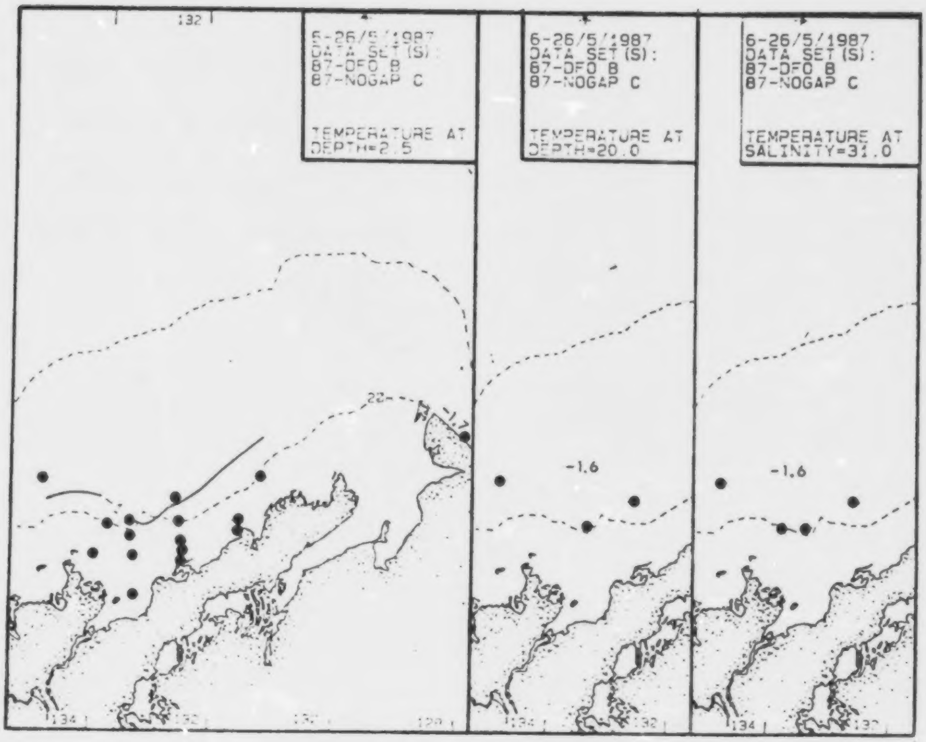
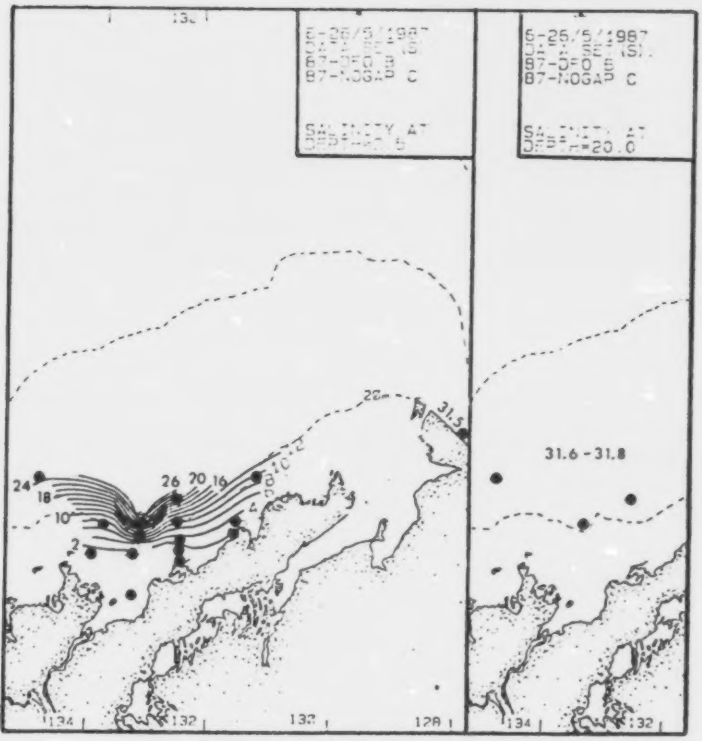
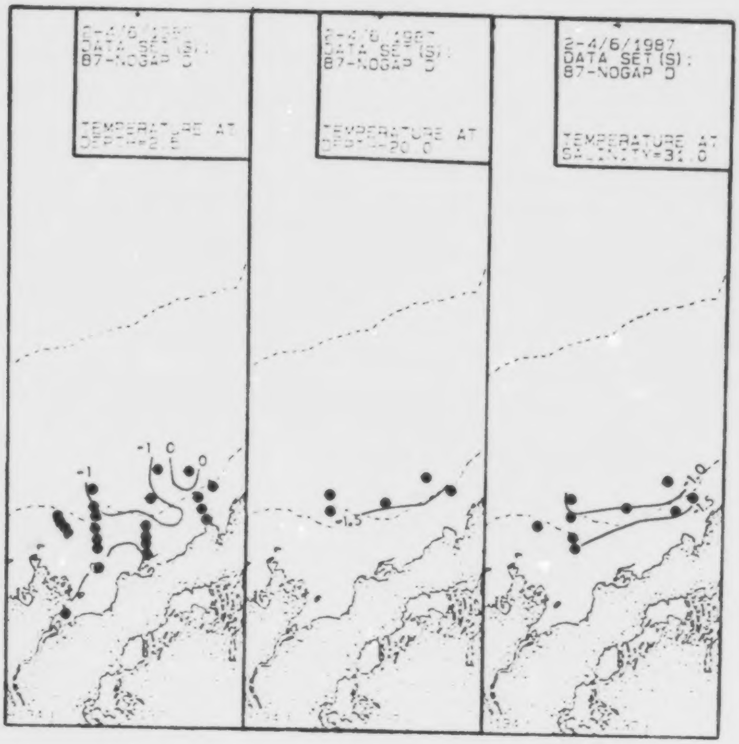
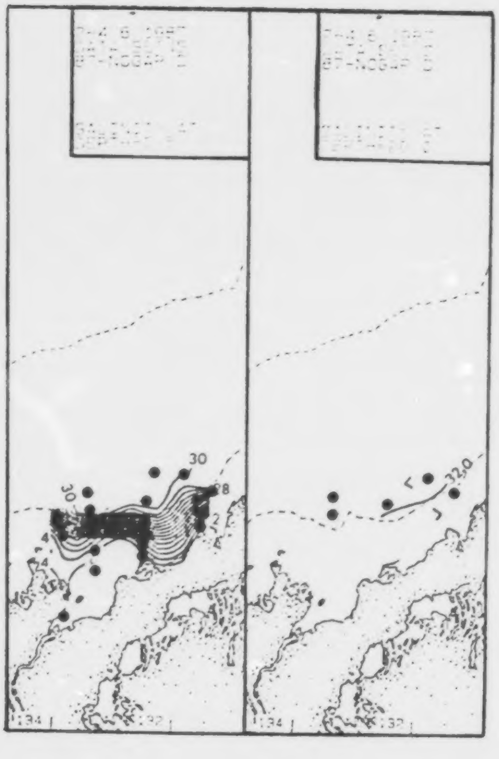
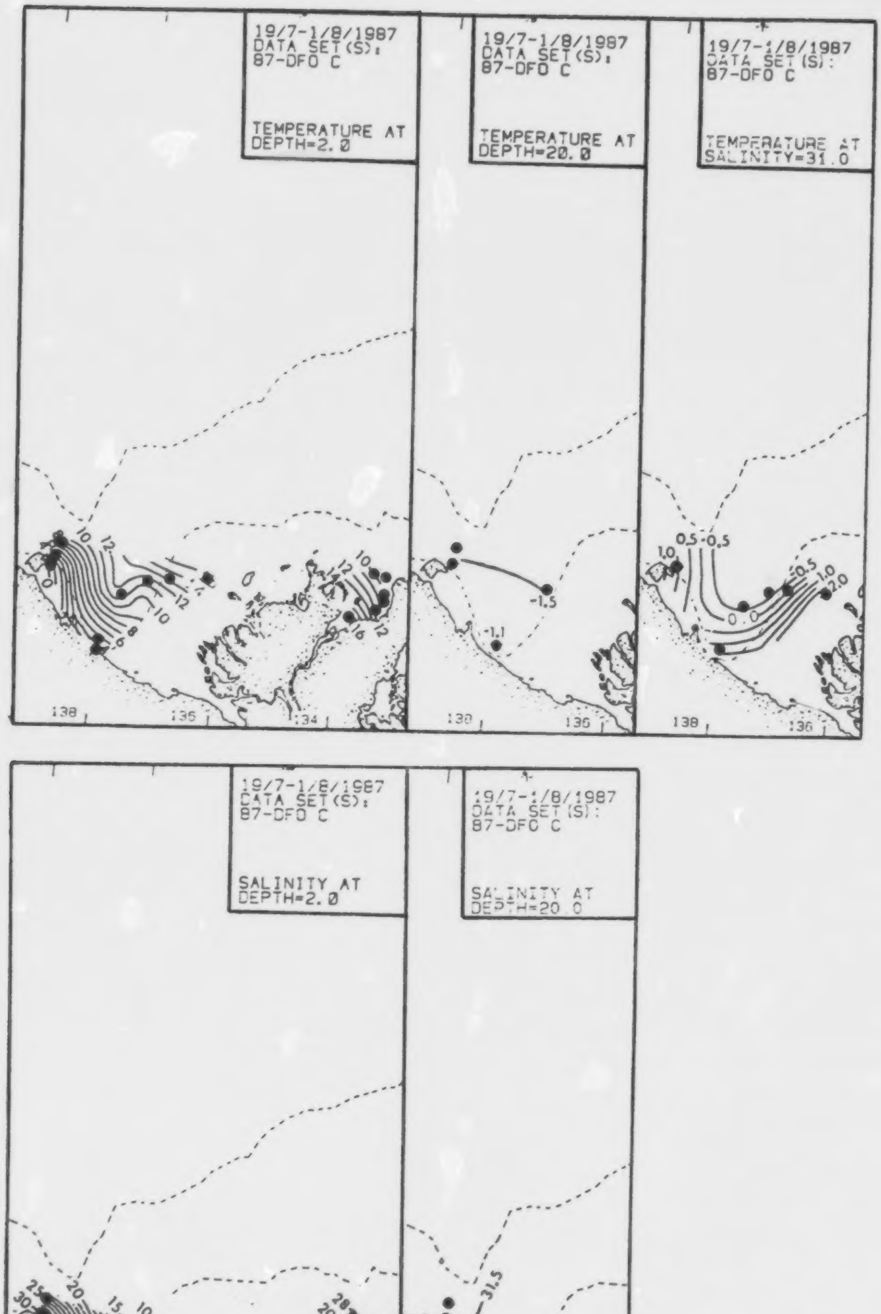
10
6
134
132
87-NOGAP B
31.5
31.5
134
132

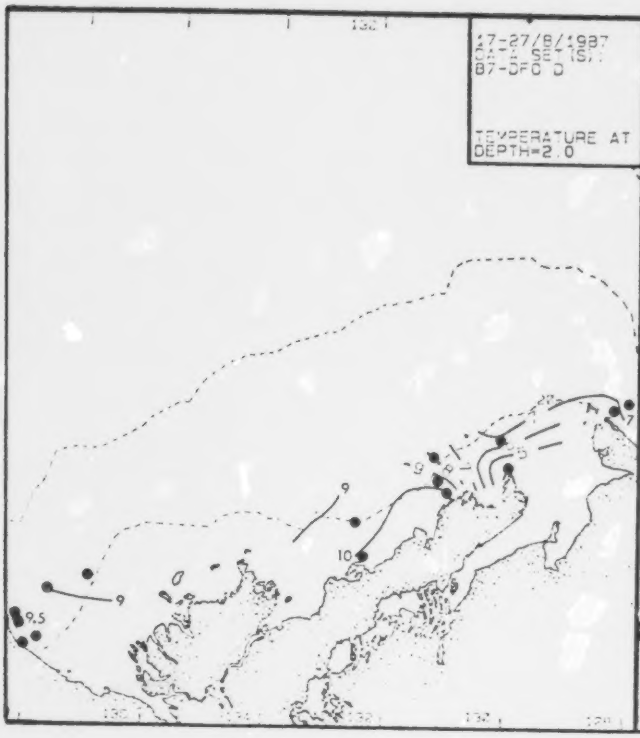

132
6-26/5/1987
DATA SET (S):
87-DFO B
87-NOGAP C
TEMPERATURE AT
DEPTH=2.5
22m
-1.7
134
132
130
128
6-26/5/1987
DATA SET (S):
87-DFO B
87-NOGAP C
TEMPERATURE AT
DEPTH=20.0
-1.6
134
132
6-26/5/1987
DATA SET (S):
87-DFO B
87-NOGAP C
TEMPERATURE AT
SALINITY=31.0
-1.6
134
132

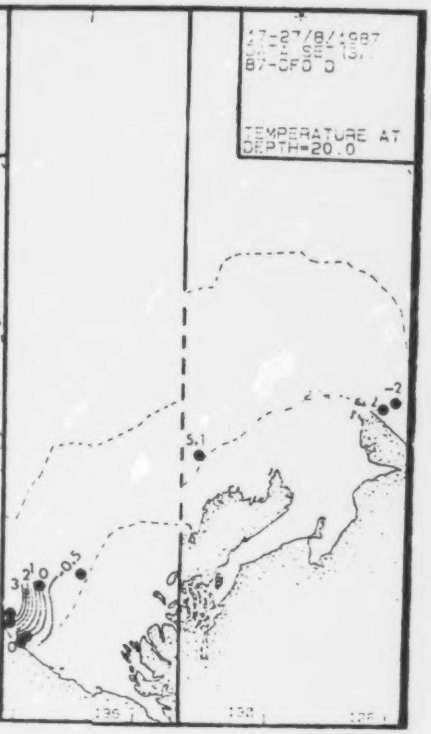

132
6-26/5/1987
DATA SET (S):
87-DFO B
87-NOGAP C
SALINITY AT
DEPTH=2.5
22m
31.5
24
18
10
2
26
20
16
10.2
8
6
4
134
132
130
128
6-26/5/1987
DATA SET (S):
87-DFO B
87-NOGAP C
SALINITY AT
DEPTH=20.0
31.6 - 31.8
134
132

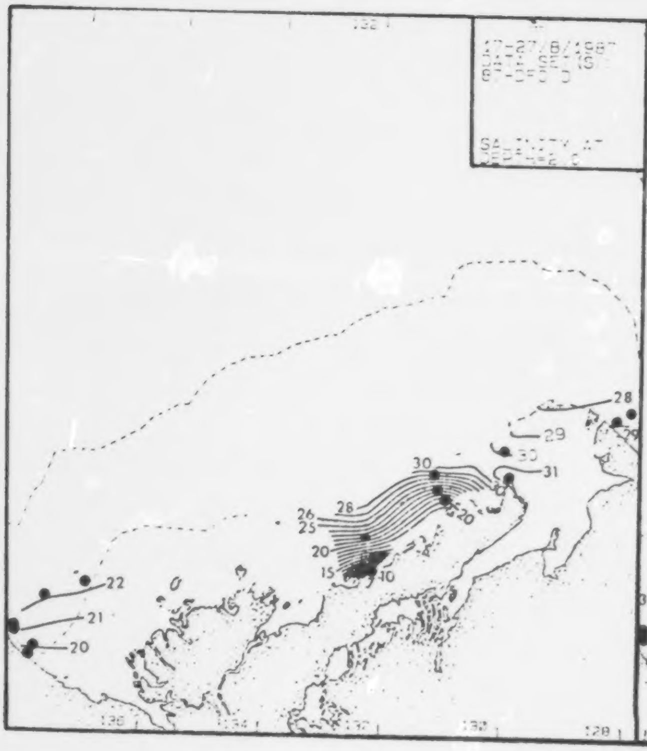

2-4/6/1987
DATA SET(S):
87-NOGAP D
TEMPERATURE AT
DEPTH=2.5
TEMPERATURE AT
DEPTH=20.0
TEMPERATURE AT
SALINITY=31.0
-1
-1.0
0
-1.5
-1.0
-1.5

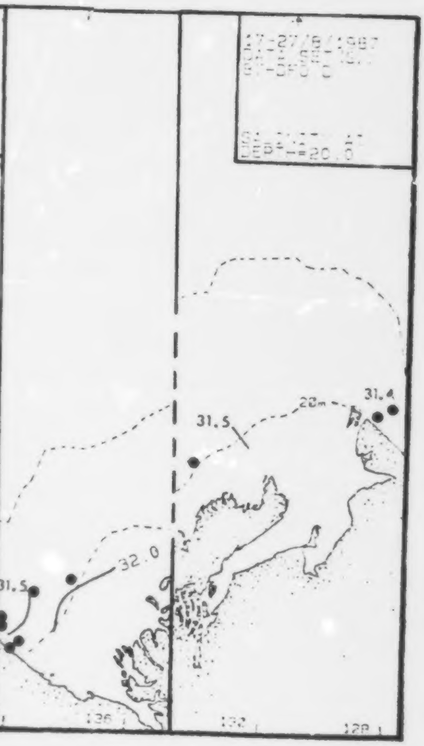

87-NOGAP D
30
30
28
32.0
34
32

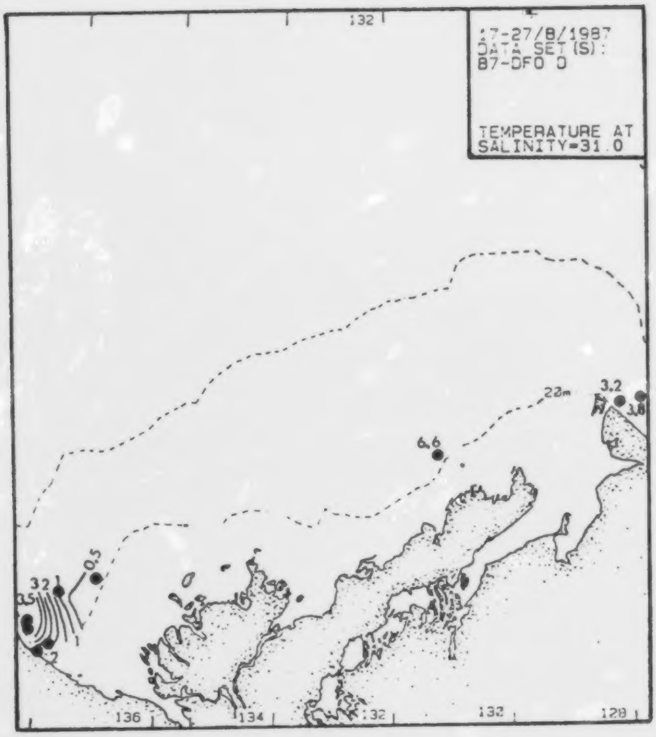

19/7-1/8/1987
DATA SET(S):
87-DFO C
TEMPERATURE AT
DEPTH=2.0
10
12
8
6
16
138
136
134
19/7-1/8/1987
DATA SET(S):
87-DFO C
TEMPERATURE AT
DEPTH=20.0
-1.5
-1.1
138
136
19/7-1/8/1987
DATA SET(S):
87-DFO C
TEMPERATURE AT
SALINITY=31.0
1.0
0.5
-0.5
0.0
2.0
138
136
19/7-1/8/1987
DATA SET(S):
87-DFO C
SALINITY AT
DEPTH=2.0
25
30
20
15
10
28
138
136
134
19/7-1/8/1987
DATA SET(S):
87-DFO C
SALINITY AT
DEPTH=20.0
31.5
32
138
136


17-27/8/1987
DATA SET(S):
87-DFO D
TEMPERATURE AT
DEPTH=2.0
9
10
9.5
9
5
7
136
134
132
130
128


17-27/8/1987
DATA SET(S):
87-DFO D
TEMPERATURE AT
DEPTH=20.0
3
2
1
0
0.5
5.1
2
136
132
128


17-27/8/1987
DATA SET(S):
87-DFO D
SALINITY AT
DEPTH=2.0
22
21
20
26
25
28
30
20
15
10
28
29
30
31
136
134
132
130
128


17-27/8/1987
DATA SET(S):
87-DFO D
SALINITY AT
DEPTH=20.0
31.5
32.0
31.5
31.4
136
132
128


17-27/8/1987
DATA SET(S):
87-DFO D
TEMPERATURE AT
SALINITY=31.0
132
22m
3.2
3.8
6.6
0.5
32
1
0.5
2
136
134
132
130
128

/

2 150

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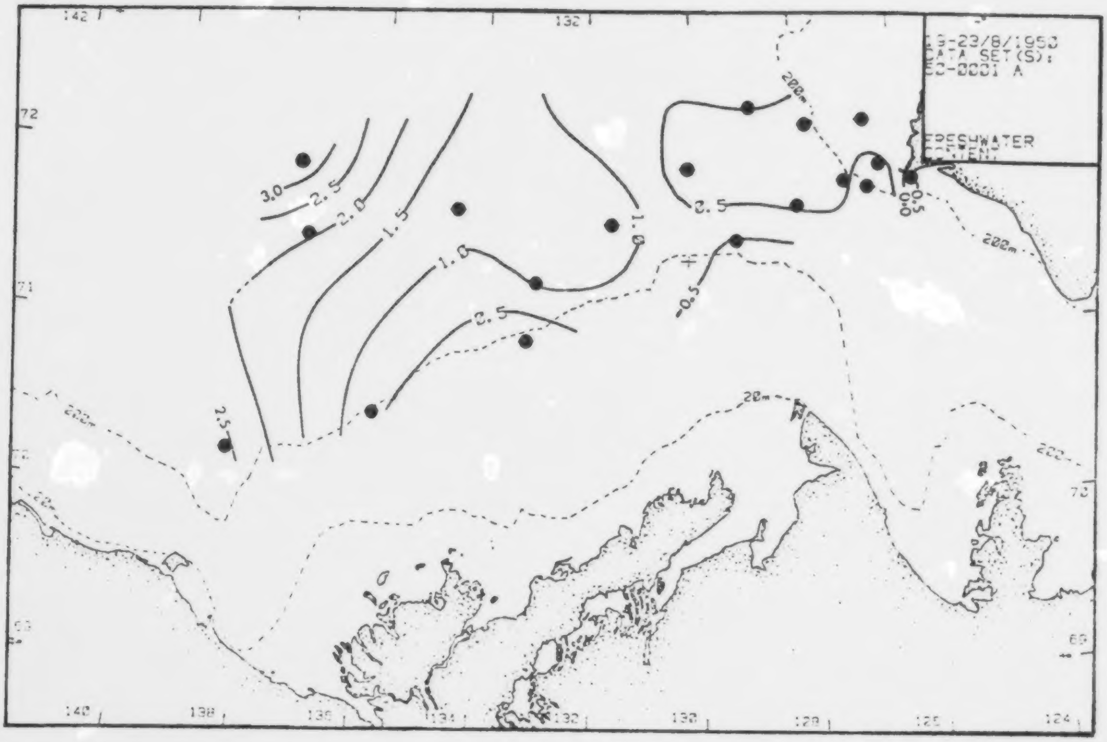
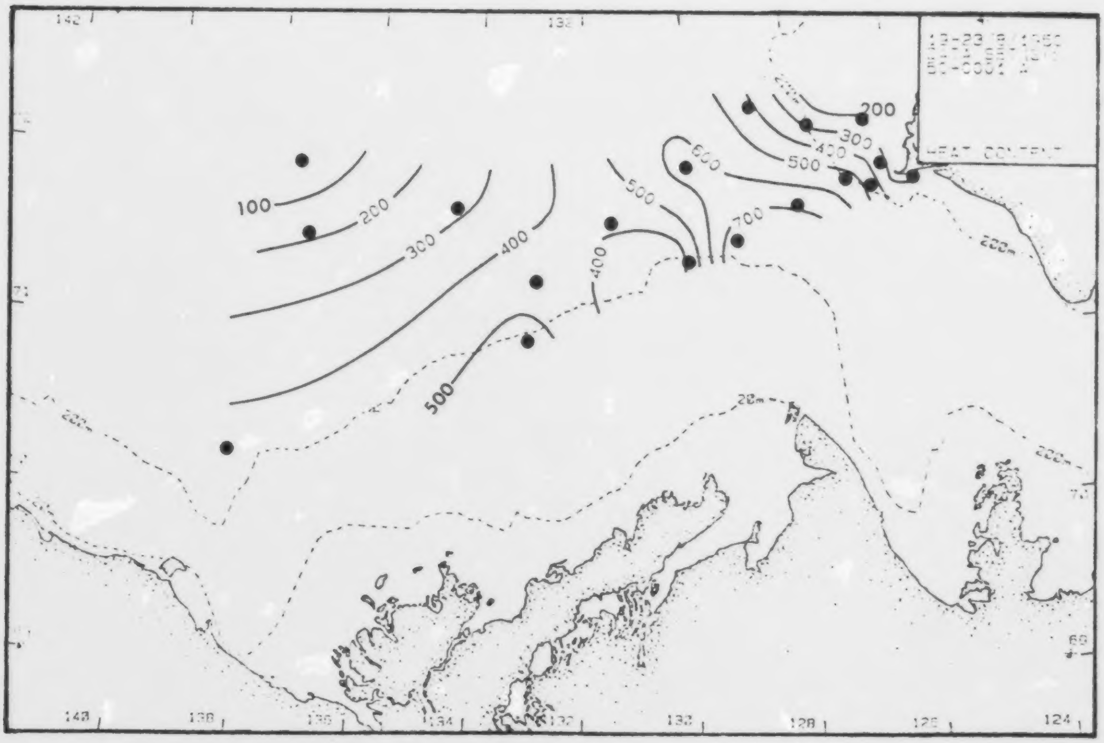
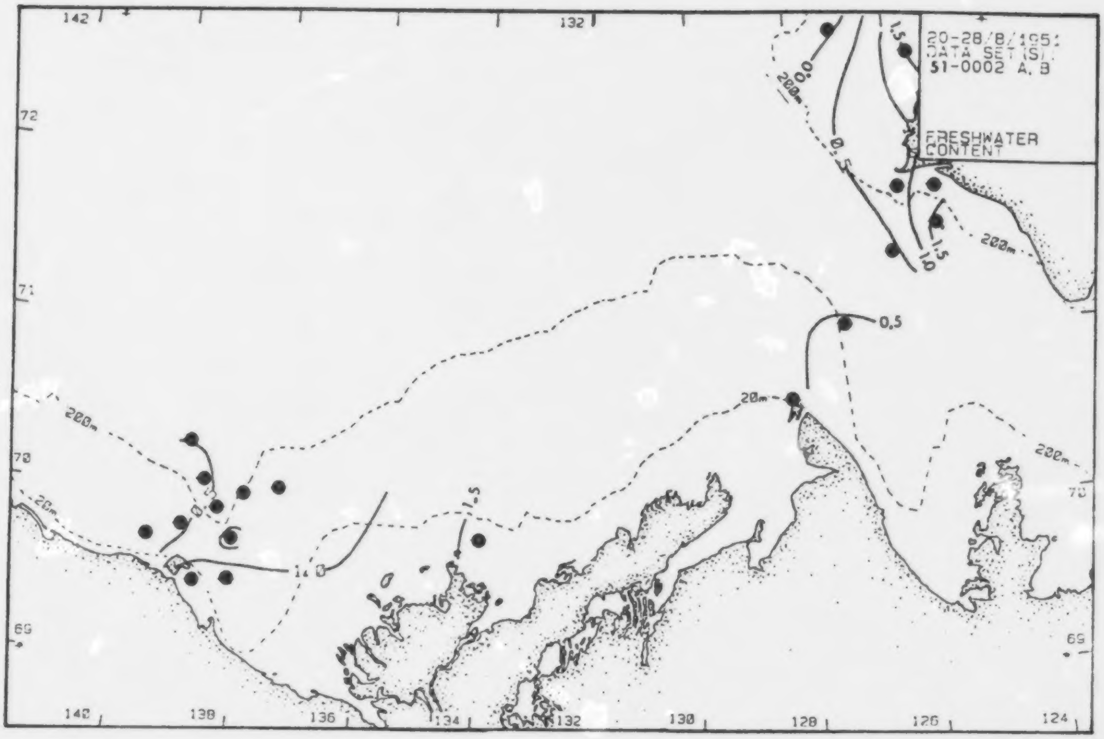
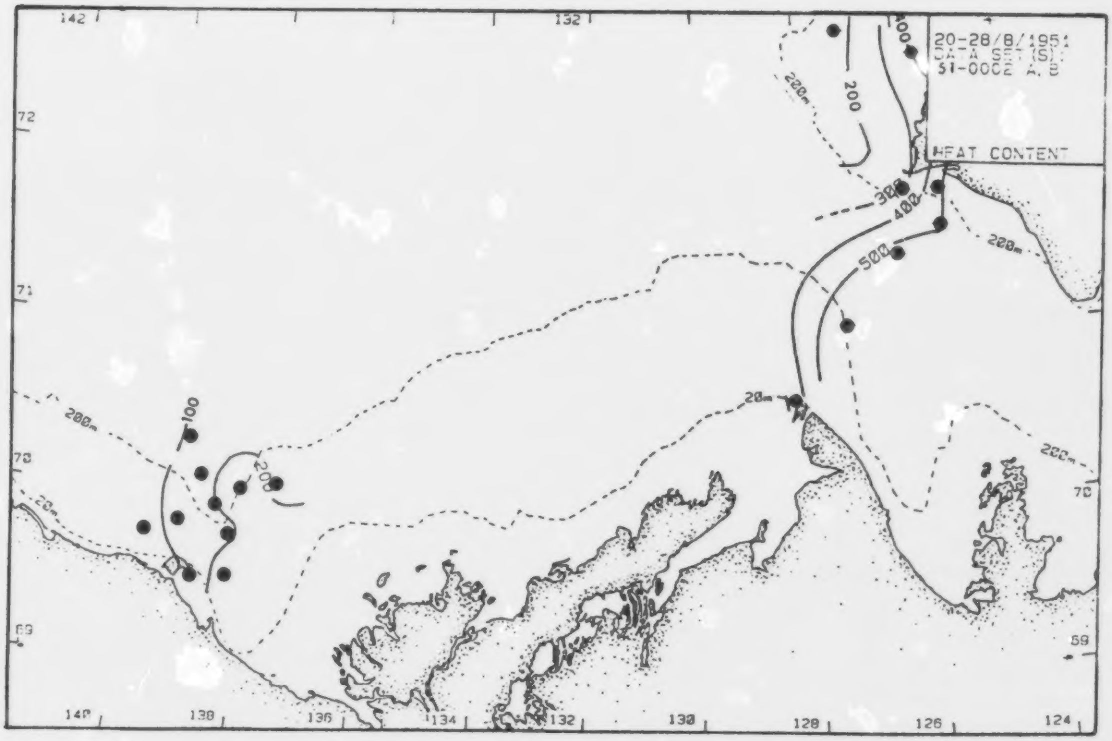
# APPENDIX C

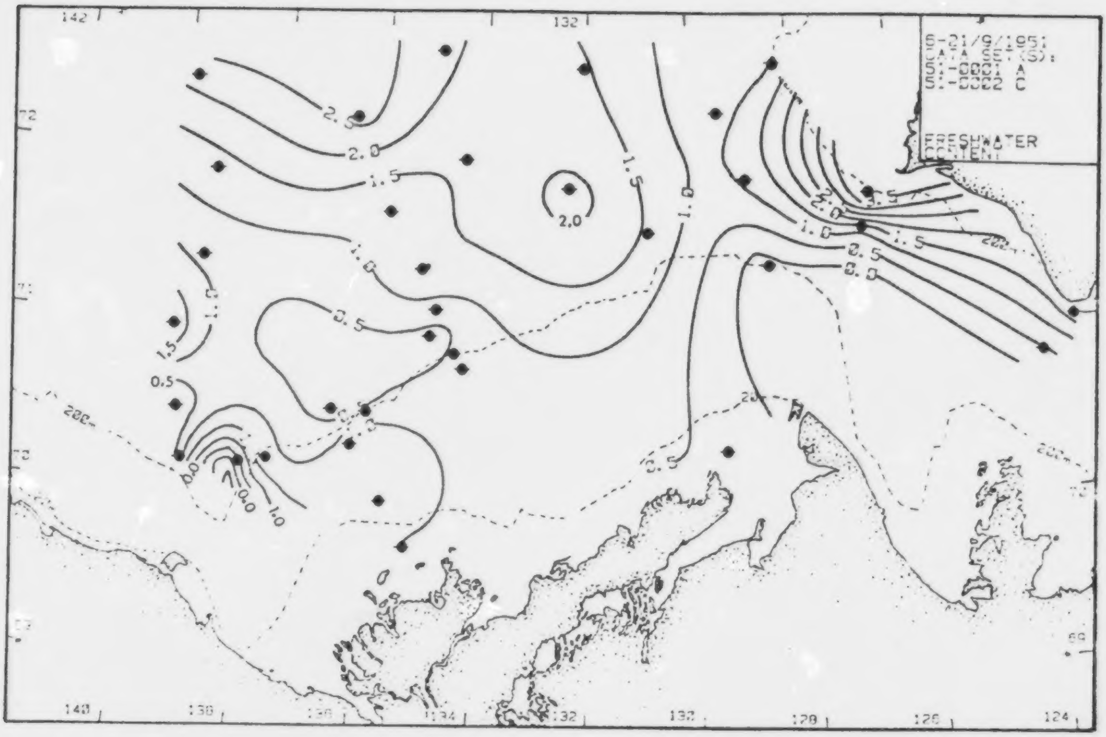
# MAPS OF FRESHWATER AND HEAT CONTENT

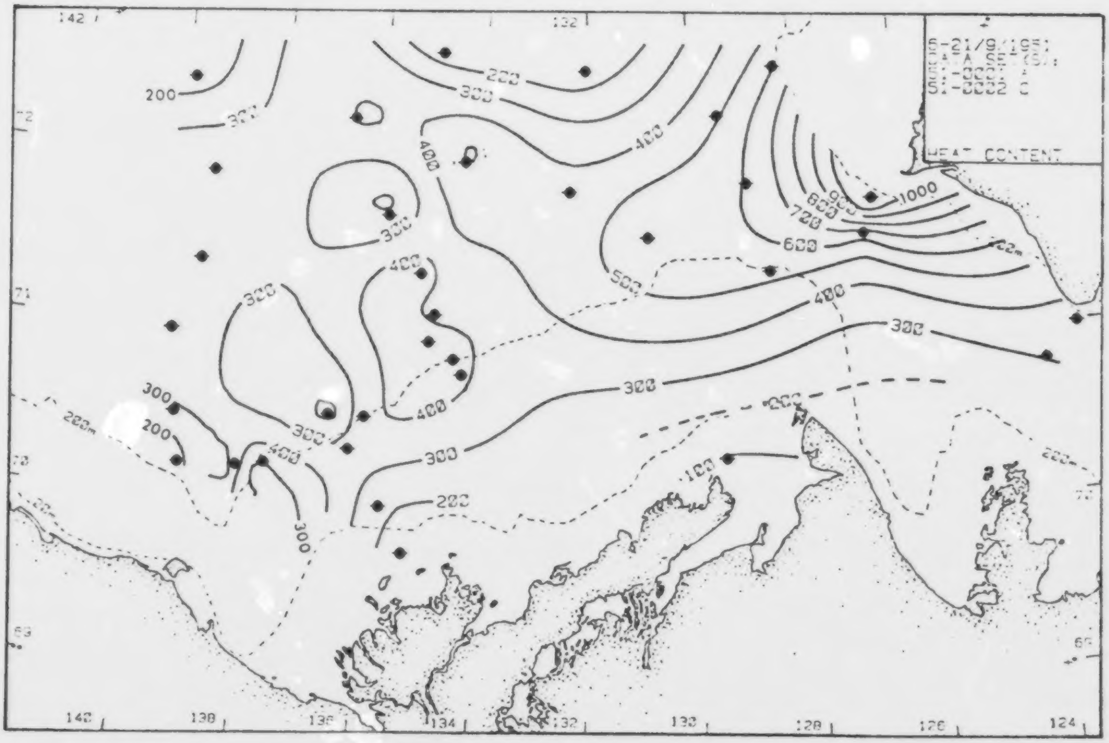

19-23/8/1950
DATA SET(S):
50-0001 A
FRESHWATER
CONTENT
3.0
2.5
2.0
1.5
1.0
0.5
-0.5
0.0
200m
20m
142
132
140
138
136
134
130
128
126
124
72
71
70
69


19-23/8/1950
DATA SET(S):
50-0001 A
HEAT CONTENT
100
200
300
400
500
600
700
200m
20m
142
132
140
138
136
134
130
128
126
124
71
70
69


20-28/8/1951
DATA SET(S):
51-0002 A,B
FRESHWATER CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
0.0
0.5
1.0
1.5


20-28/8/1951
DATA SET(S):
51-0002 A,B
HEAT CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
100
200
300
400
500


6-21/9/1951
DATA SET(S):
51-0001 A
51-0002 C
FRESHWATER CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
2.5
2.0
1.5
1.0
0.5
0.0
200m
200


6-21/9/1951
DATA SET(S):
51-0001 A
51-0002 C
HEAT CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
1000
900
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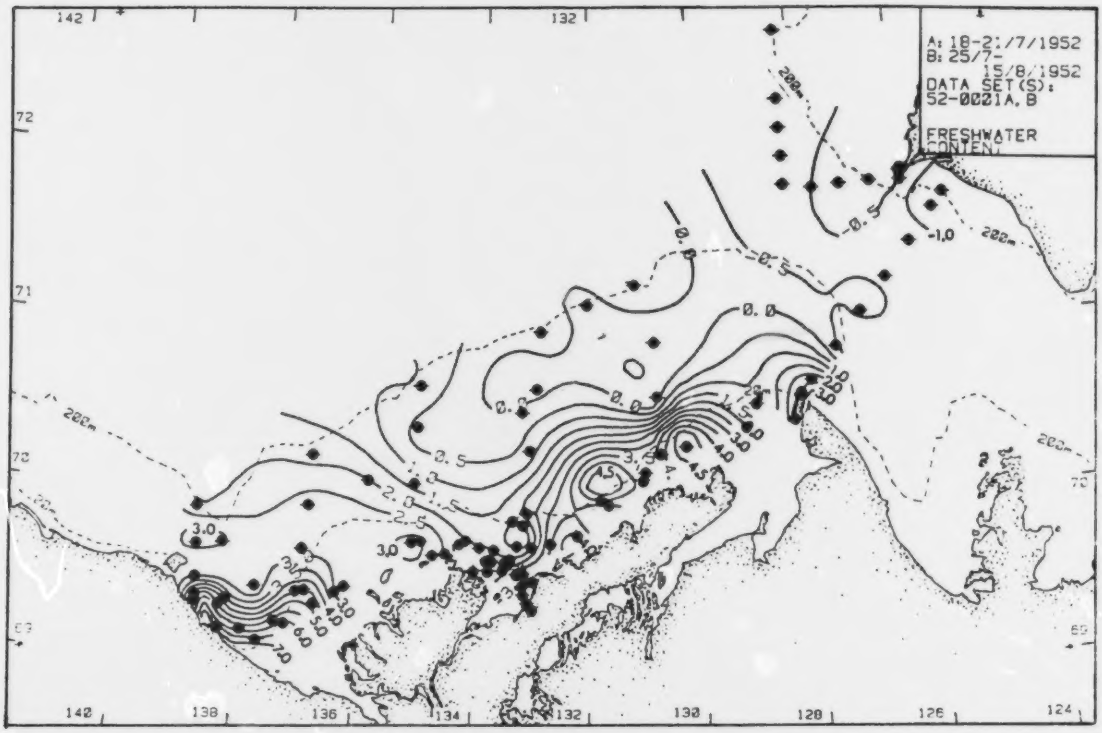
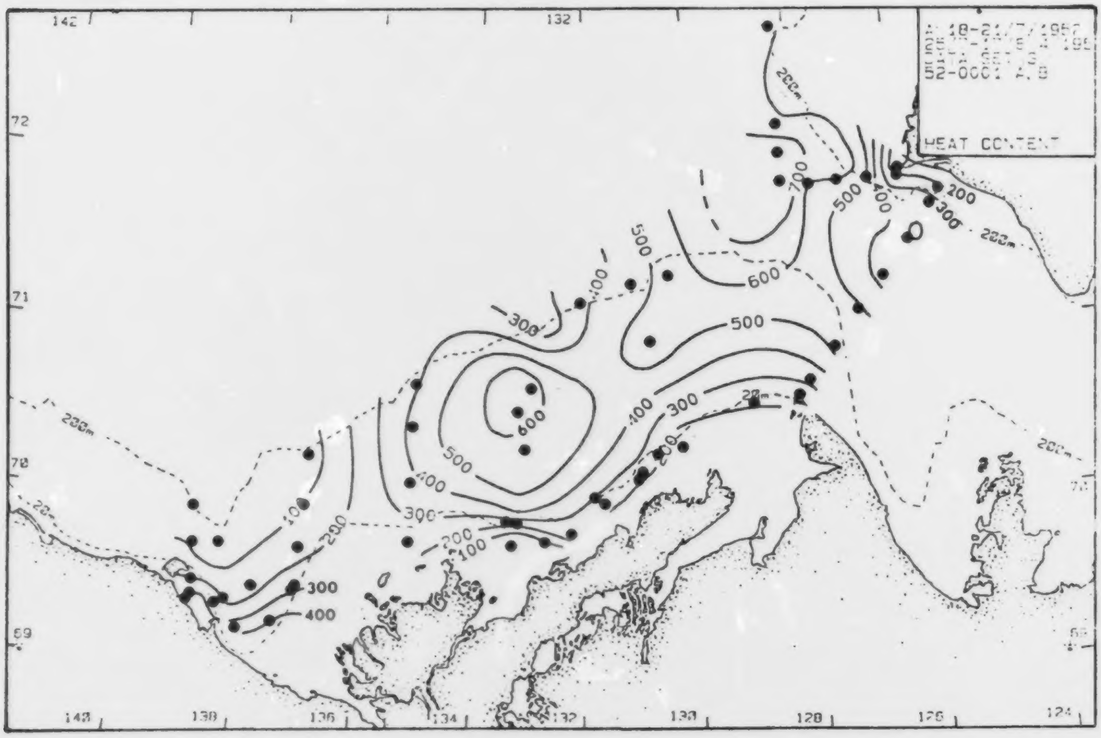
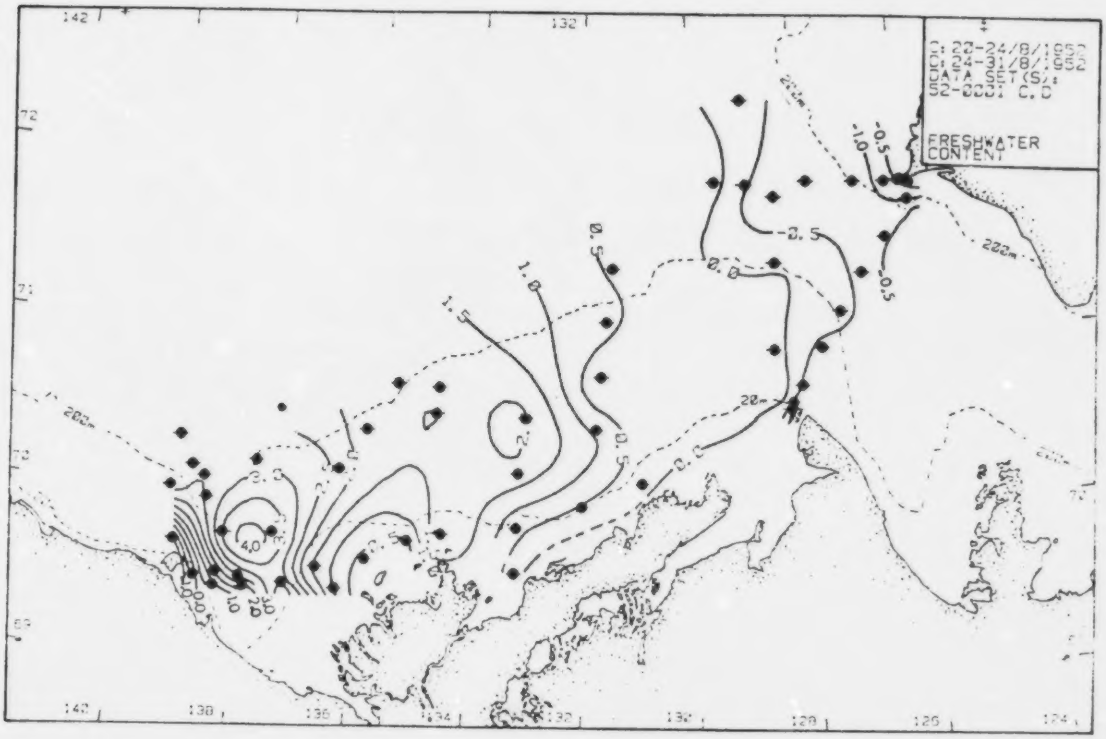
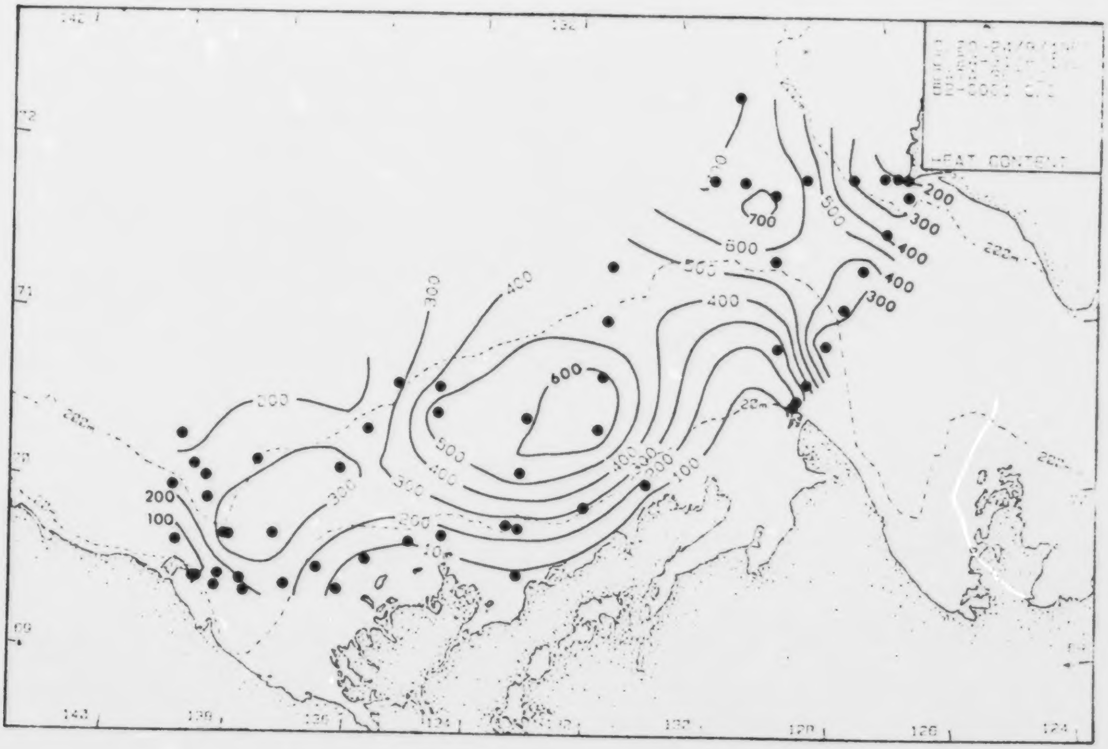
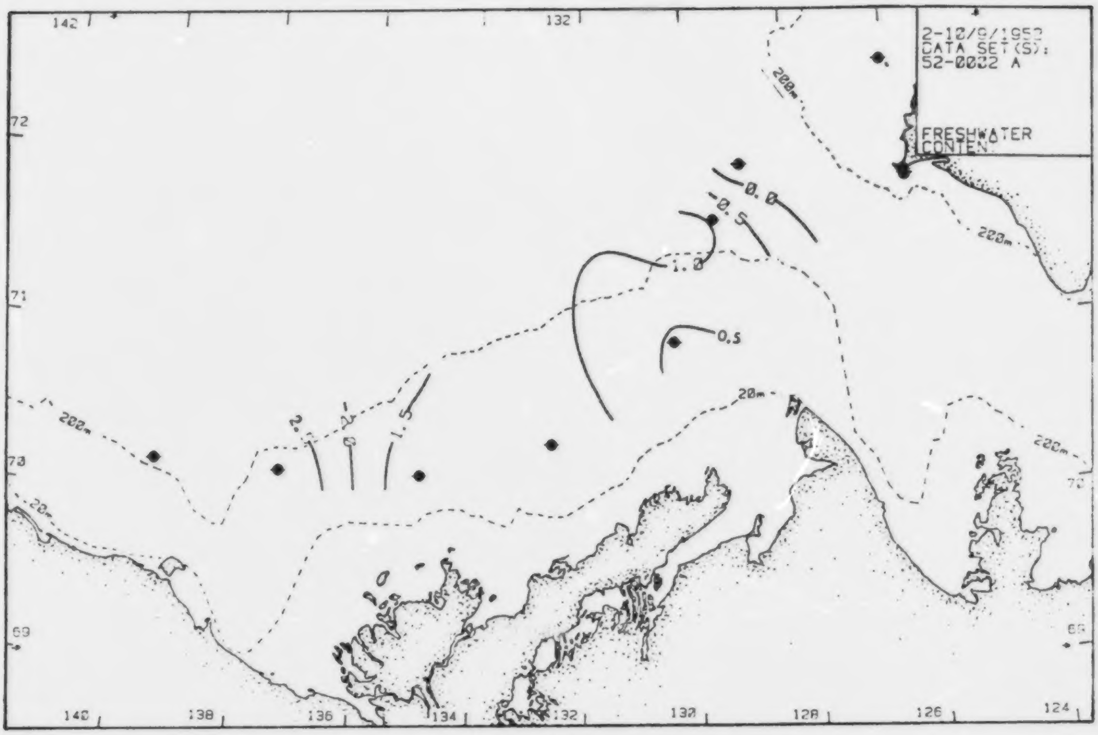
700
600
500
400
300
200
100
200m

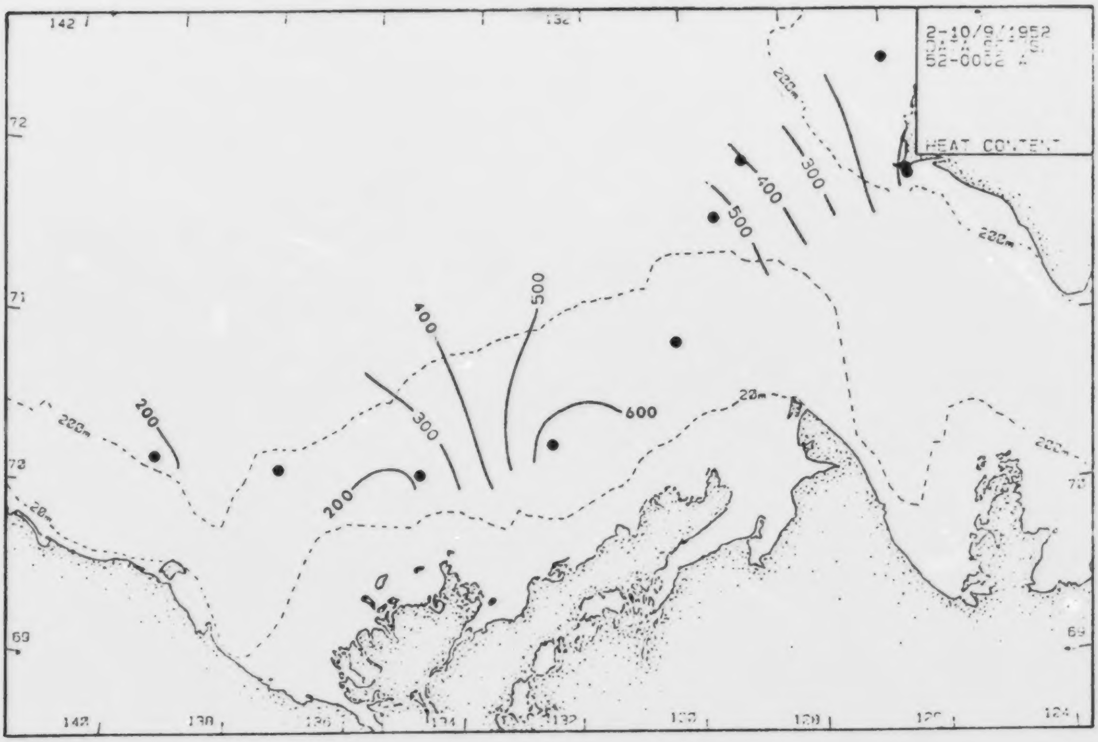

A: 18-21/7/1952
B: 25/7-15/8/1952
DATA SET(S):
52-0001A,B
FRESHWATER CONTENT
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
0.0
0.5
-0.5
-1.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
6.0
7.0


A: 18-21/7/1952
B: 25/7-15/8/1952
DATA SET(S):
52-0001 A,B
HEAT CONTENT
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
100
200
300
400
500
600
700


O: 22-24/8/1952
◊: 24-31/8/1952
DATA SET(S):
52-0001 C.D
FRESHWATER CONTENT
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
4.0
3.0
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0


52-0001 C.D
HEAT CONTENT
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
700
600
500
400
300
200
100


2-10/9/1952
DATA SET(S):
52-0002 A
FRESHWATER CONTENT
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
0.0
0.5
1.0
0.5
1.5
2.0
200m
20m


2-10/9/1952
DATA SET(S):
52-0002 A
HEAT CONTENT
142
132
140
138
136
134
132
130
128
126
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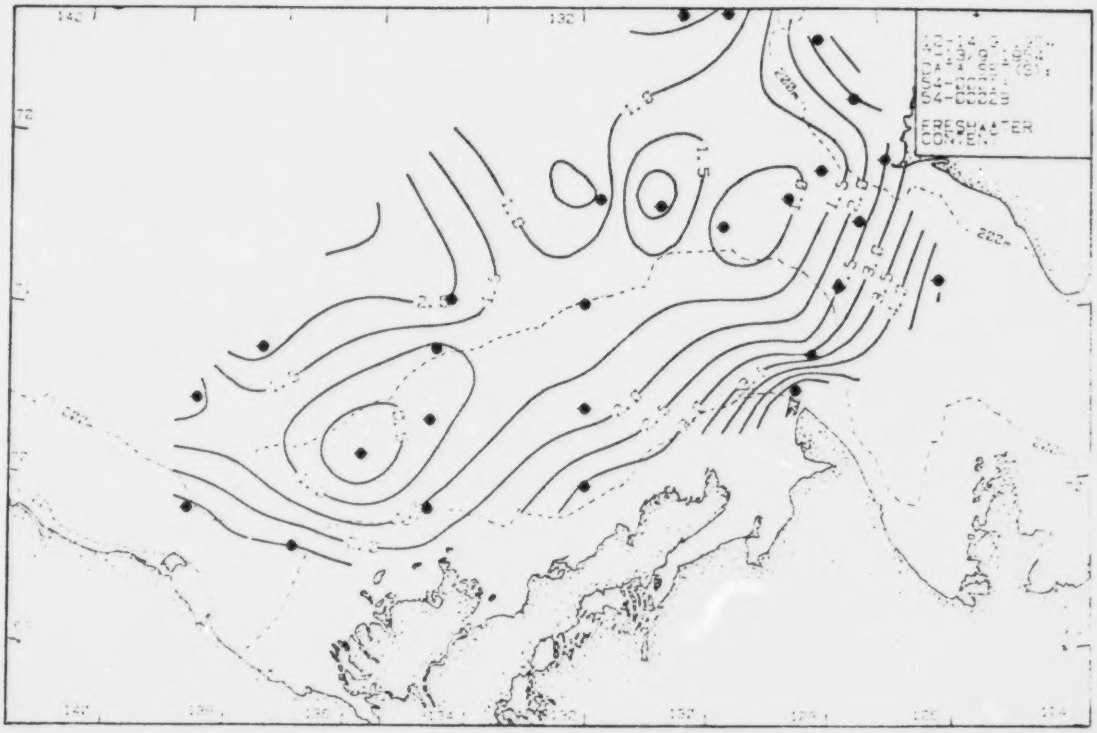
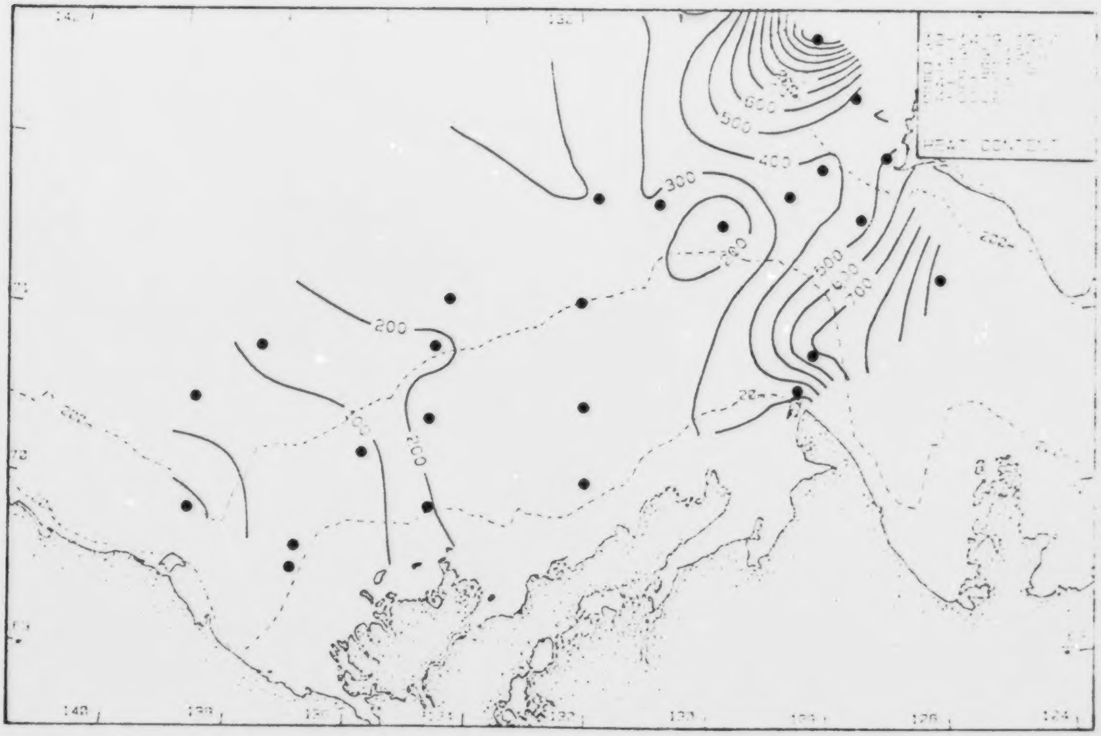
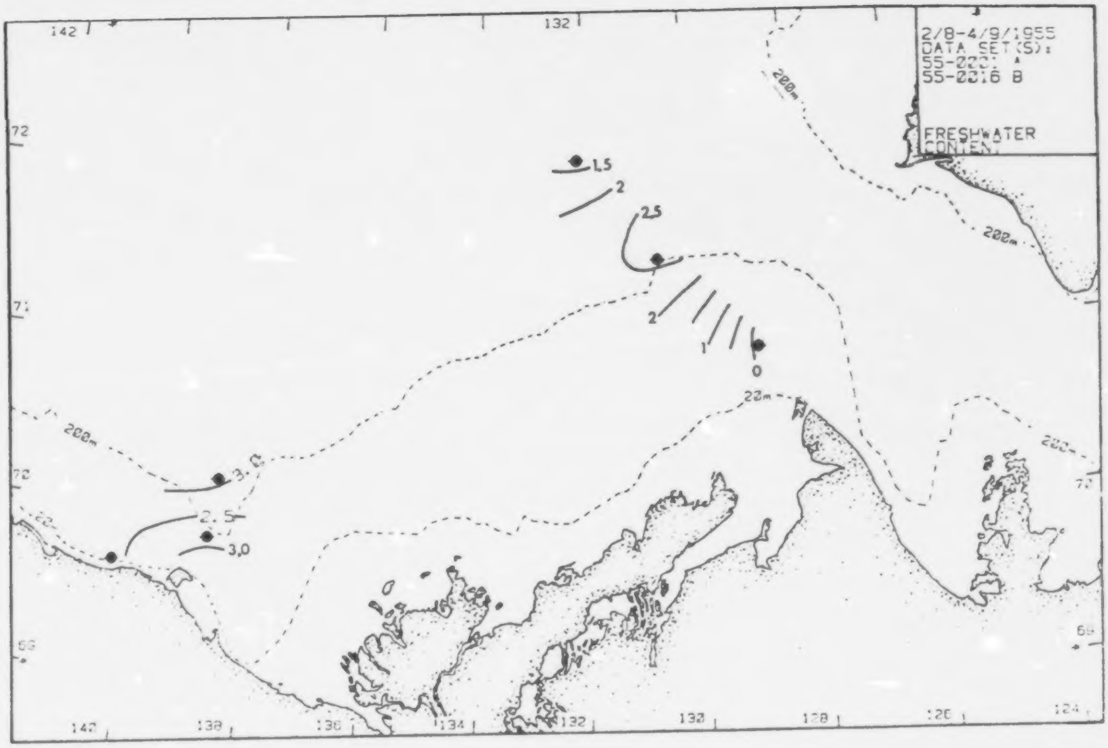
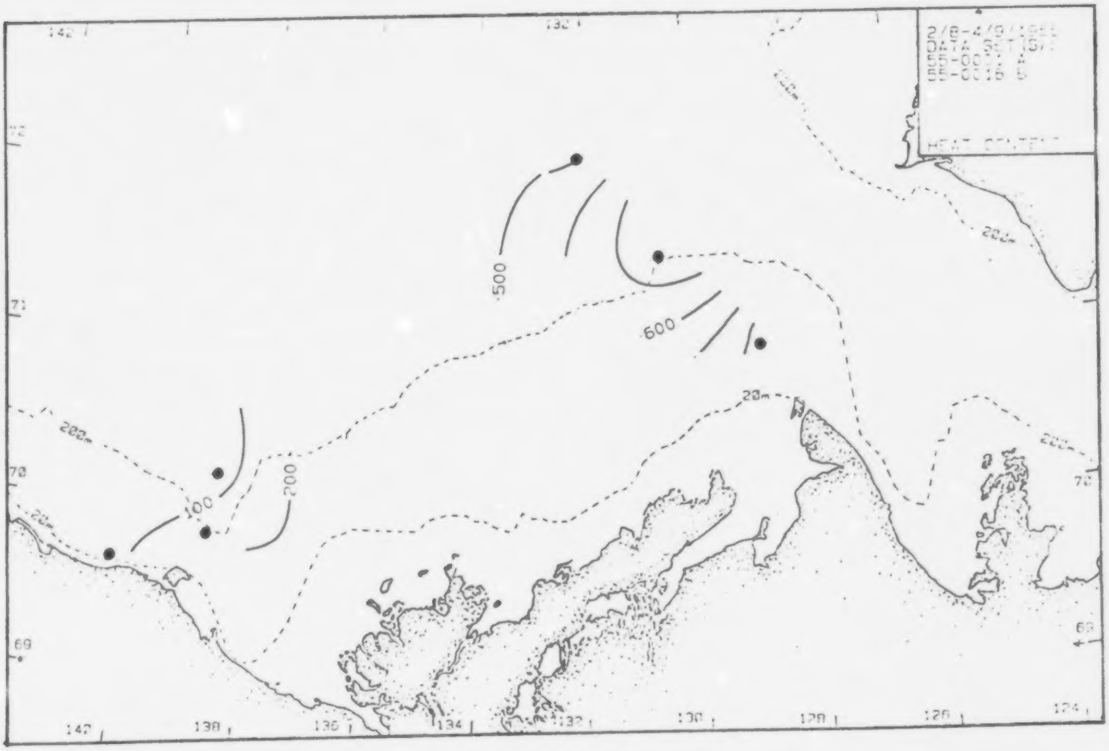
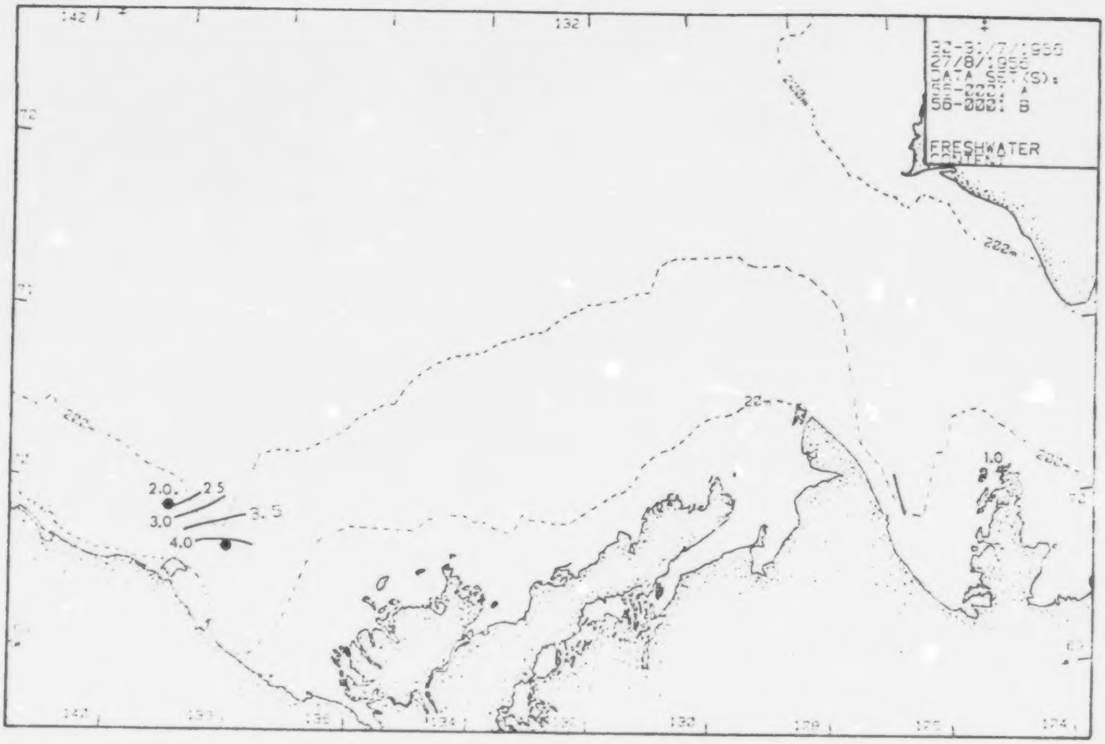
300
200
200
600
200m
20m

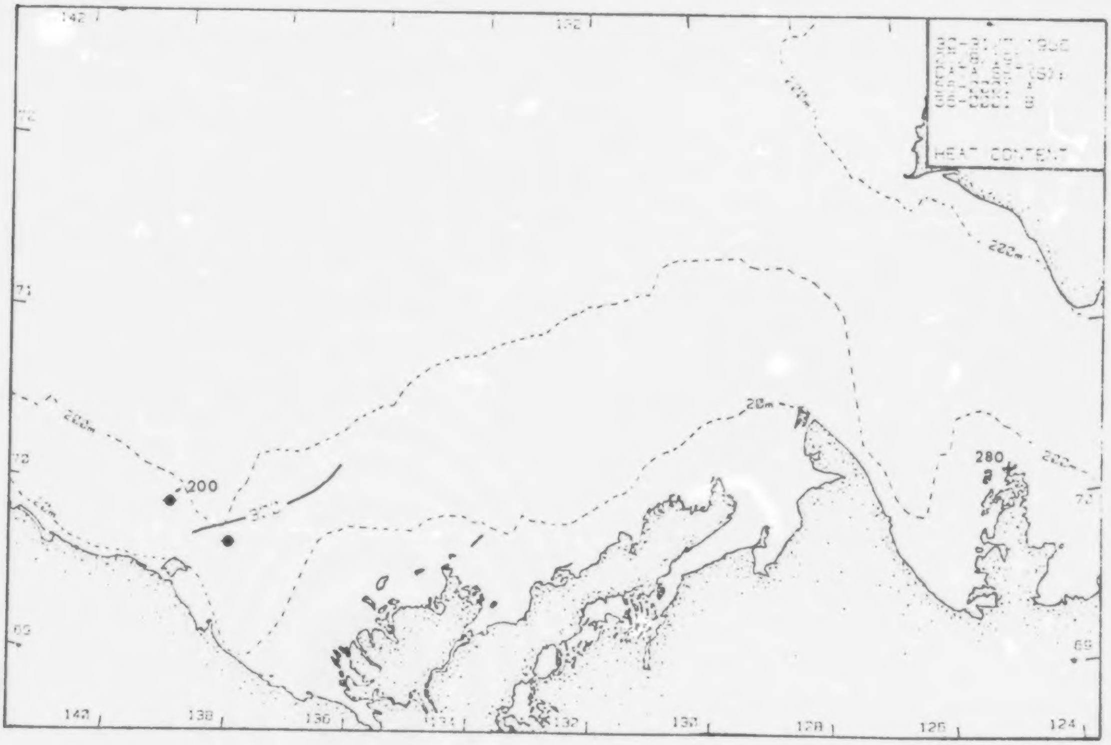

140
132
124
138
136
134
130
128
126
72
54-00029
FRESHWATER
CONTENT
1.0
1.5
2.0
2.5
3.0
3.5
222

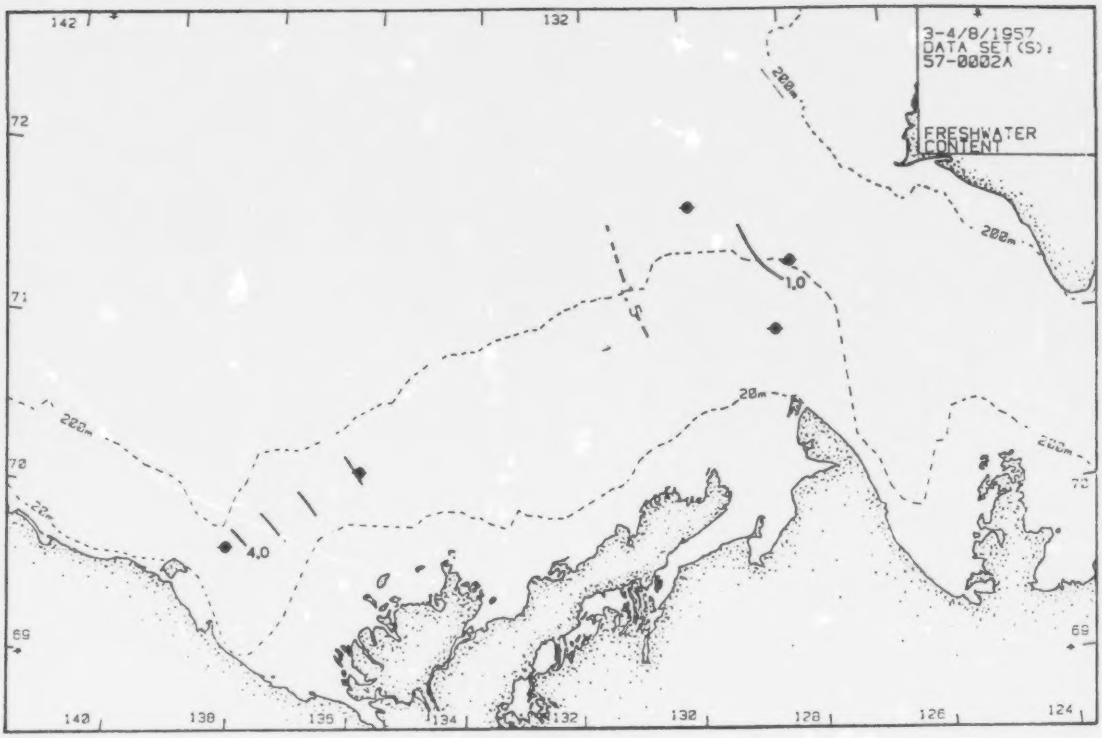

140
132
138
136
134
130
128
126
124
72
HEAT CONTENT
200
300
400
500
600
700
222

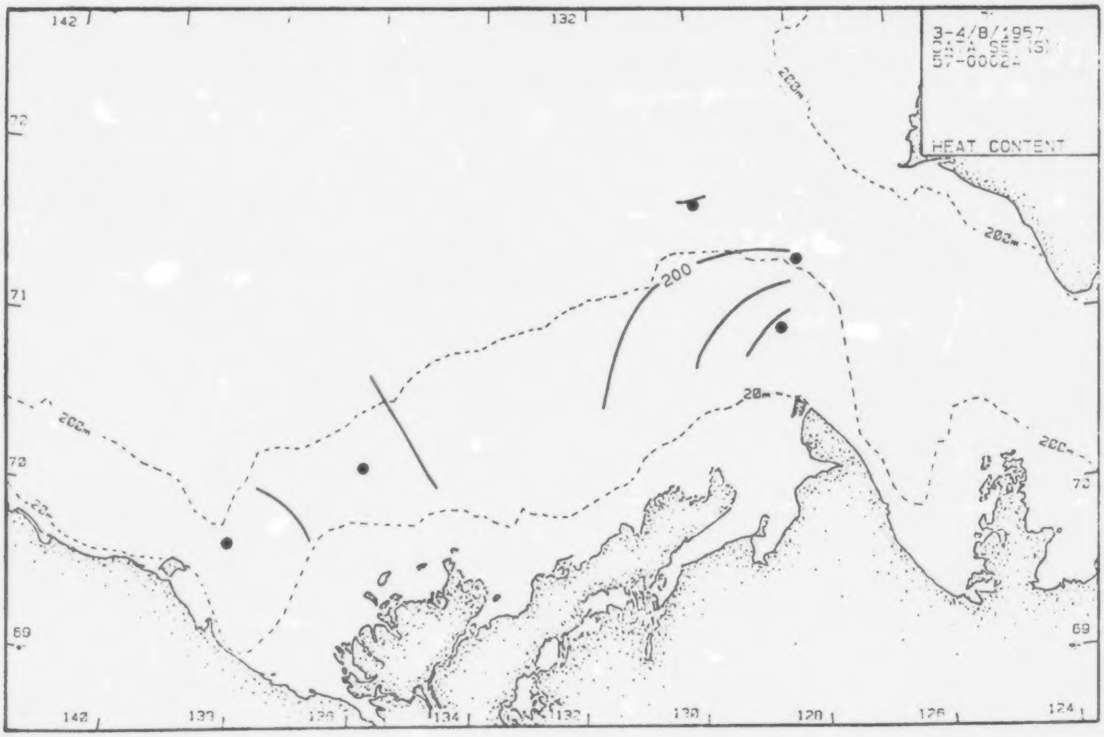

2/8-4/9/1955
DATA SET(S):
55-0001 A
55-0016 B
FRESHWATER
CONTENT
142
132
72
71
70
69
1.5
2
2.5
2
1
0
3.0
2.5
3.0
200m
20m
142
138
136
134
132
130
128
126
124


2/8-4/9/1955
DATA SET(S):
55-0001 A
55-0016 B
HEAT CONTENT
142
132
72
71
70
69
500
600
100
200
200m
20m
142
138
136
134
132
130
128
126
124


142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
222m
22m
2.0
2.5
3.0
3.5
4.0
1.0
27/8/1956
DATA SET(S):
56-002: B
FRESHWATER
CONTENT


142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
222m
20m
200
300
280
DATA SET(S):
56-002: B
HEAT CONTENT


3-4/8/1957
DATA SET(S):
57-0002A
FRESHWATER CONTENT
142
132
72
71
70
69
200m
20m
1.0
4.0
140
138
136
134
132
130
128
126
124


3-4/8/1957
DATA SET(S):
57-0002A
HEAT CONTENT
142
132
72
71
70
69
200m
20m
200
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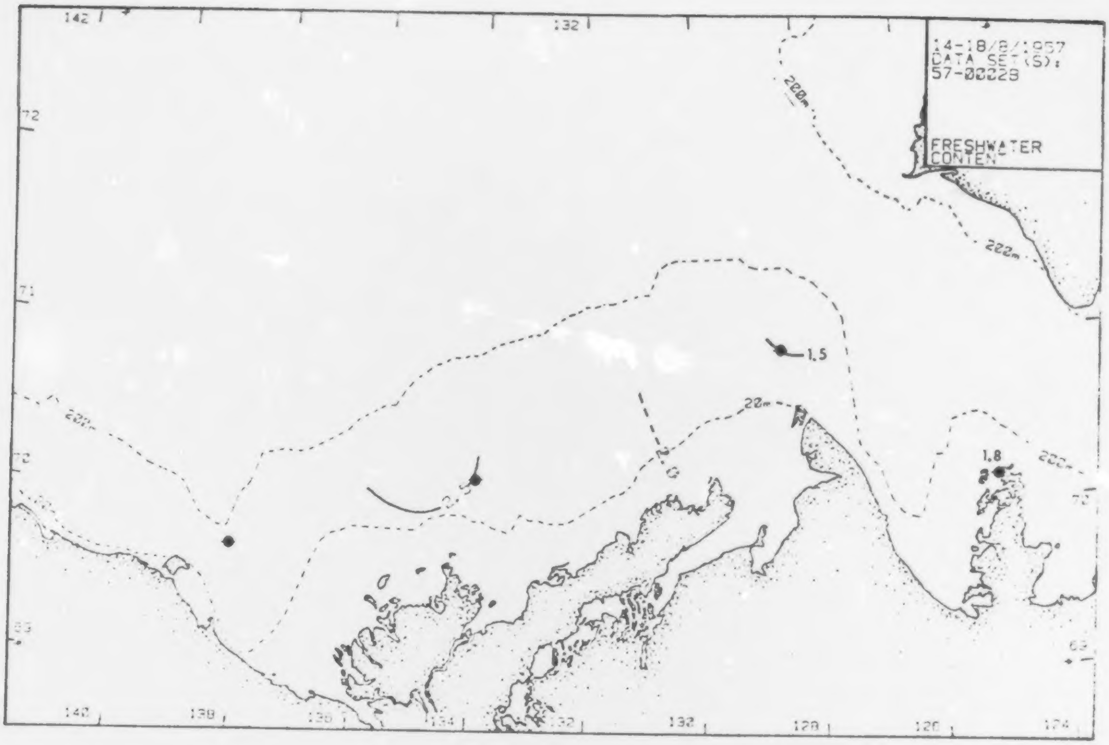
136
134
132
130
128
126
124


14-18/8/1957
DATA SET(S):
57-00228
FRESHWATER
CONTEN
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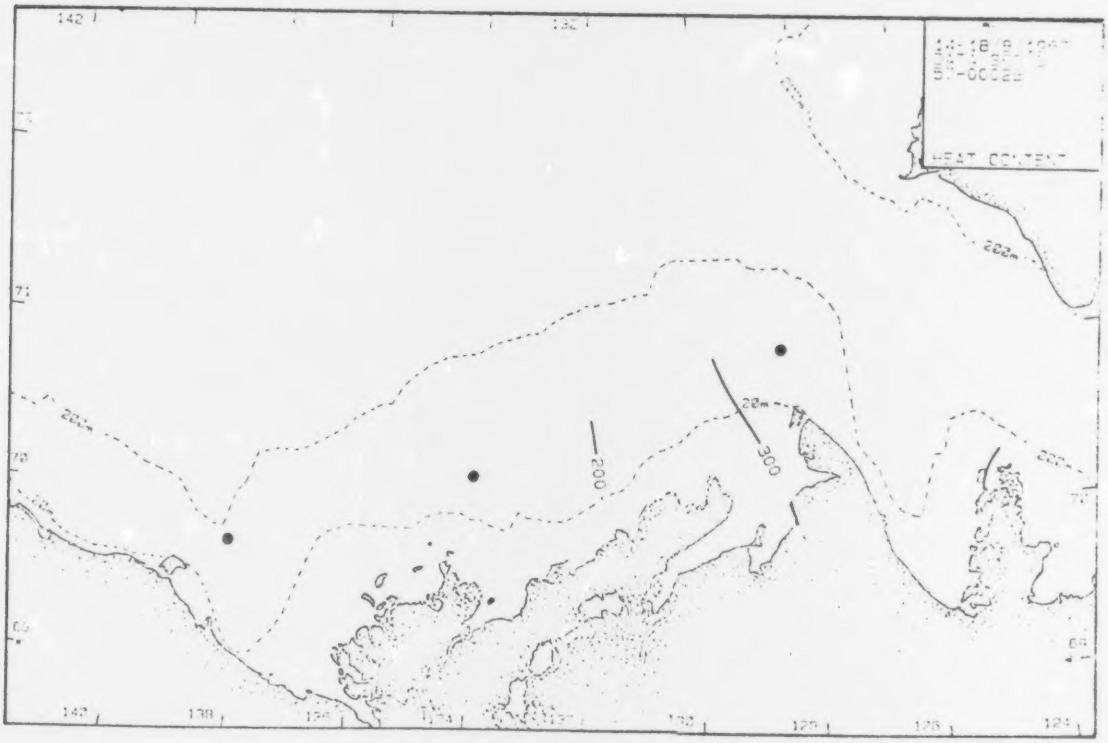
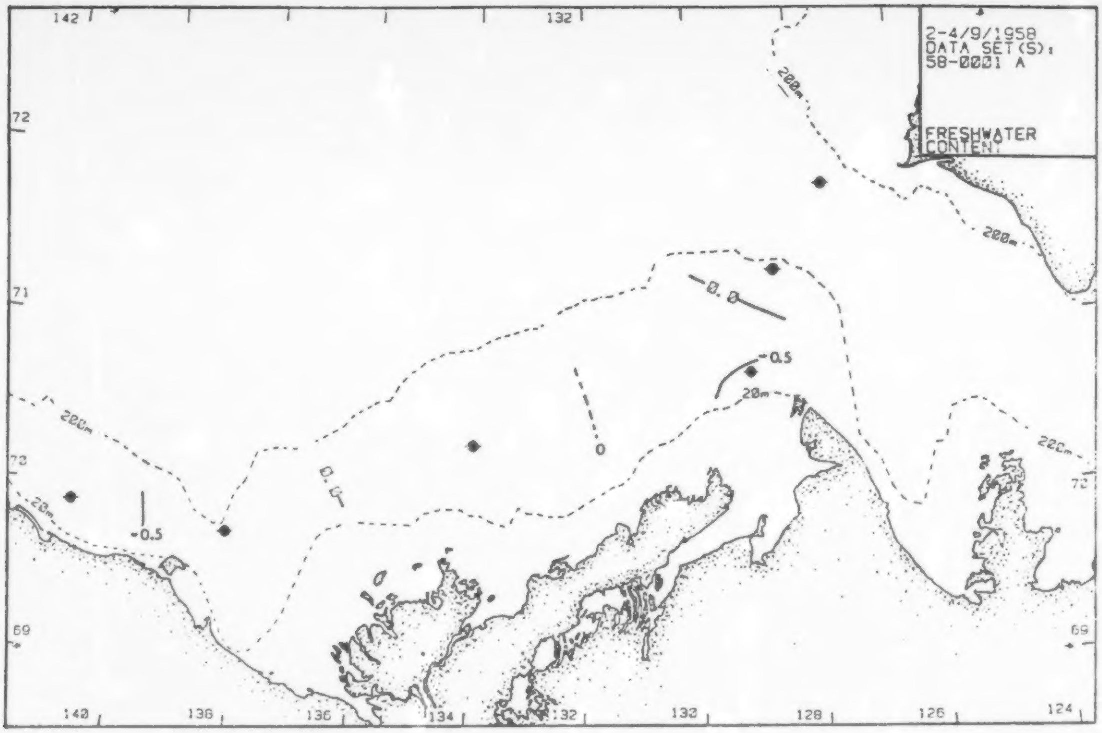
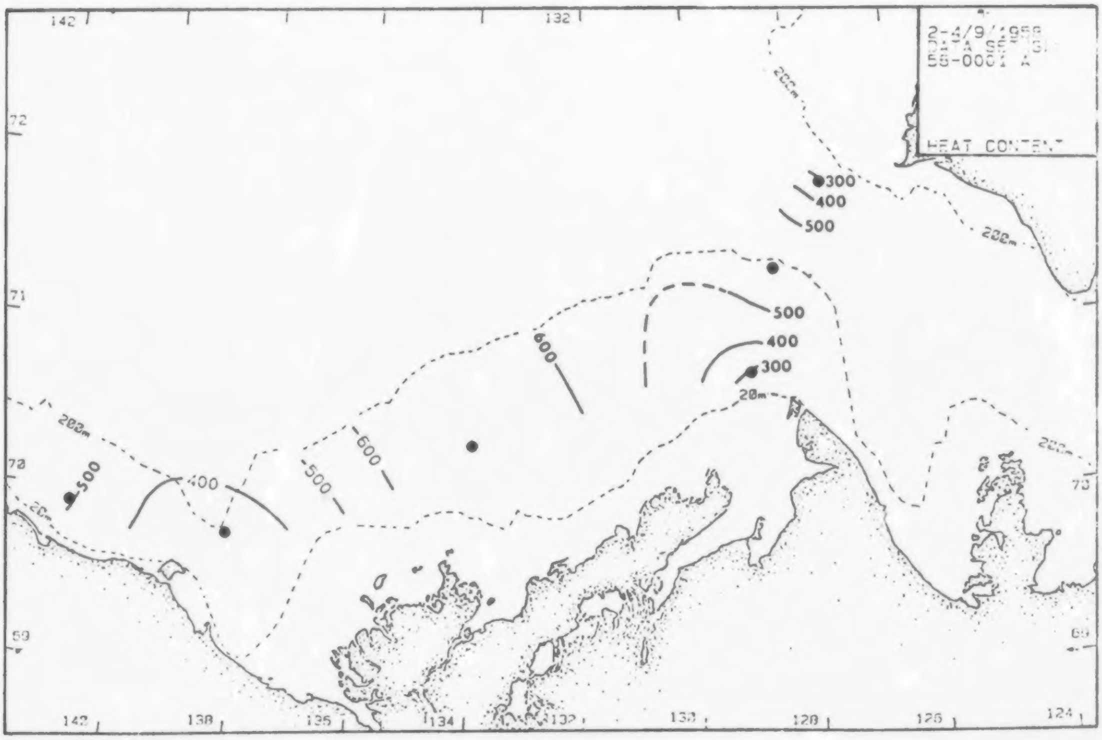
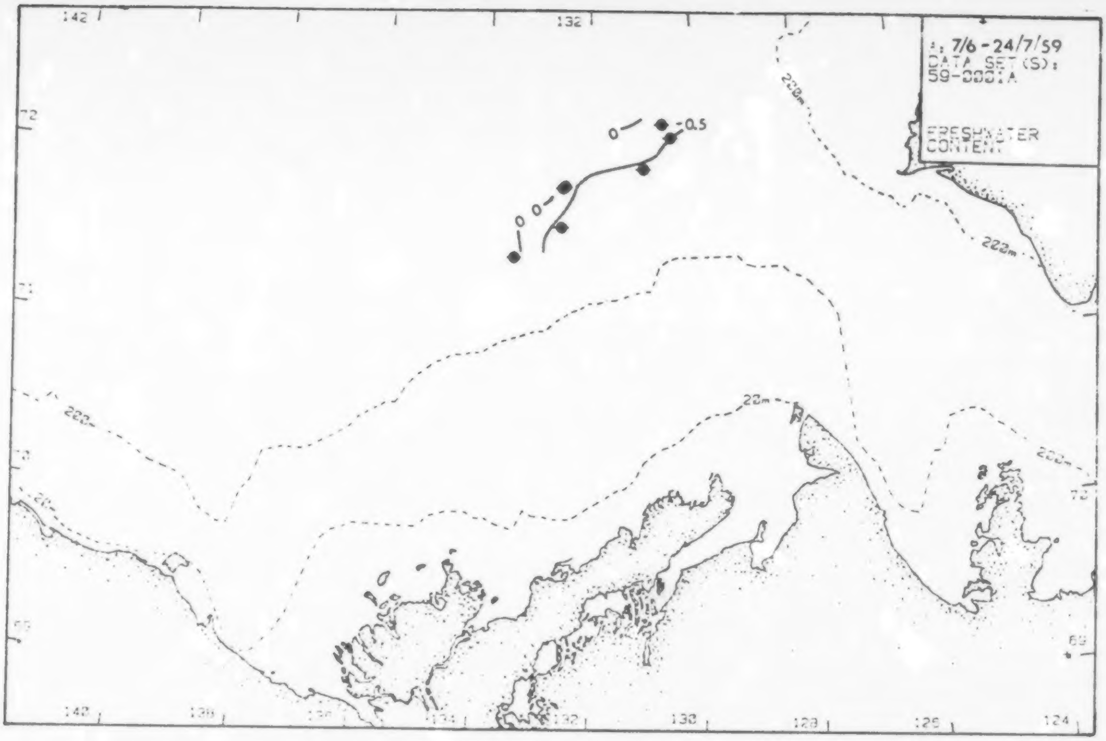
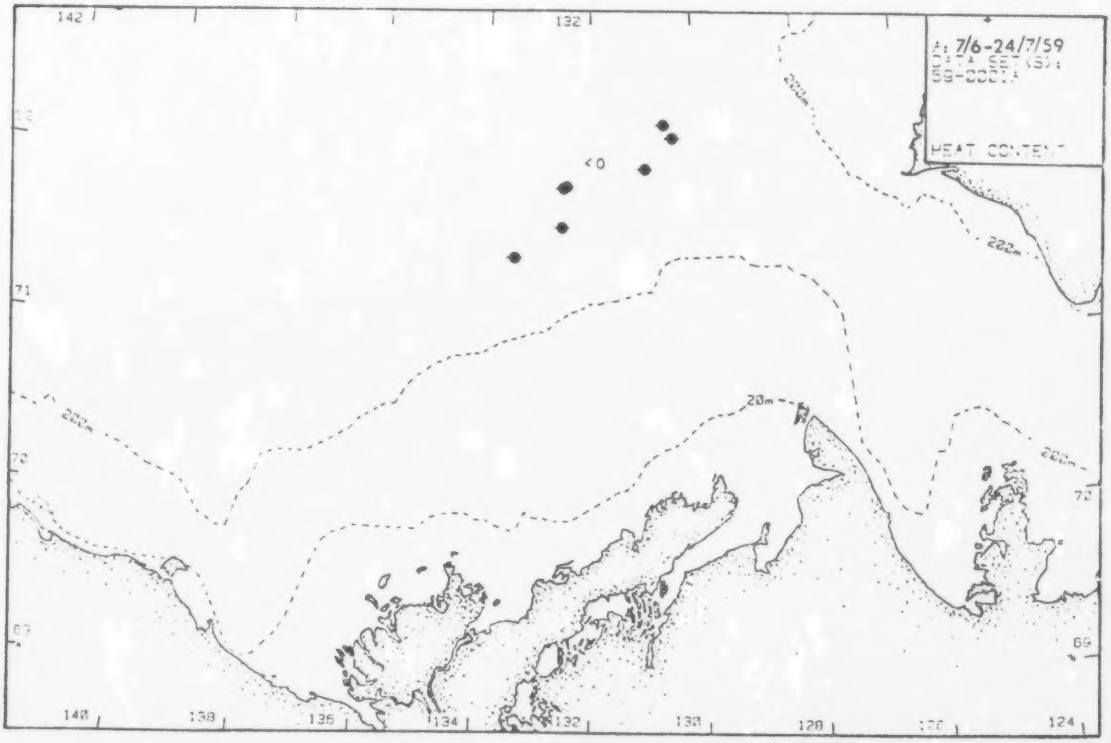
132
72
71
70
69
222m
22m
1.5
2.0
2.5
1.8
140
138
136
134
132
130
128
126
124

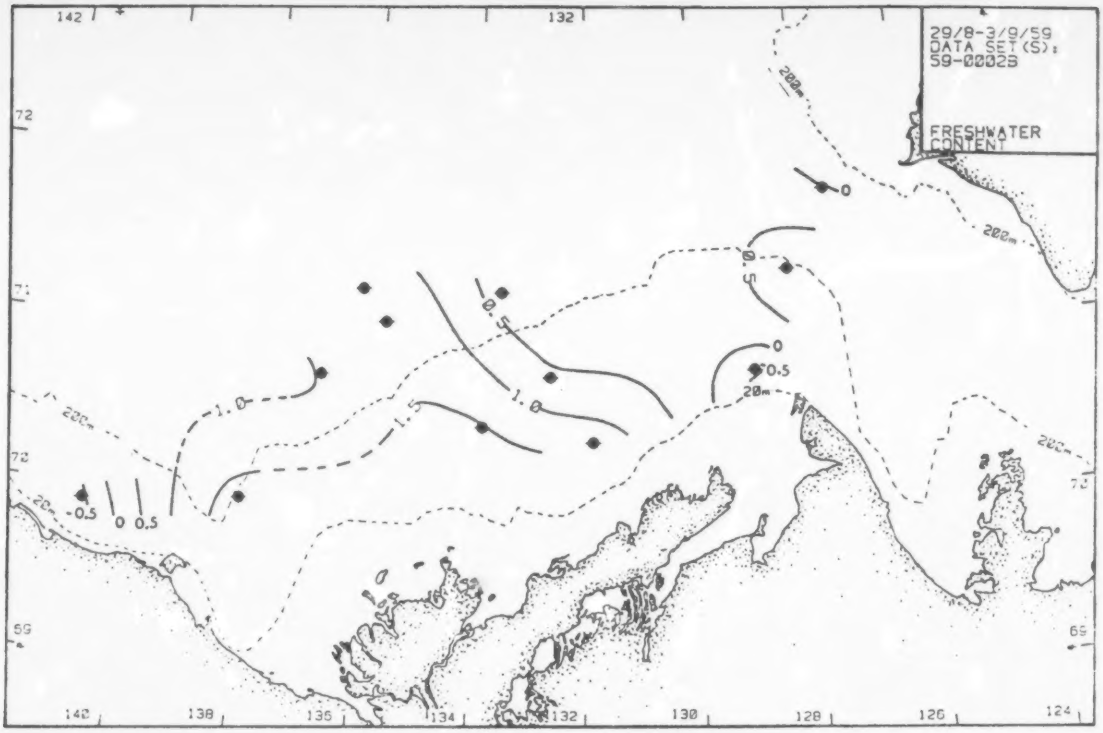

14-18/8/1957
57-00228
HEAT CONTENT
142
132
72
71
70
69
222m
22m
200
300
140
138
136
134
132
130
128
126
124

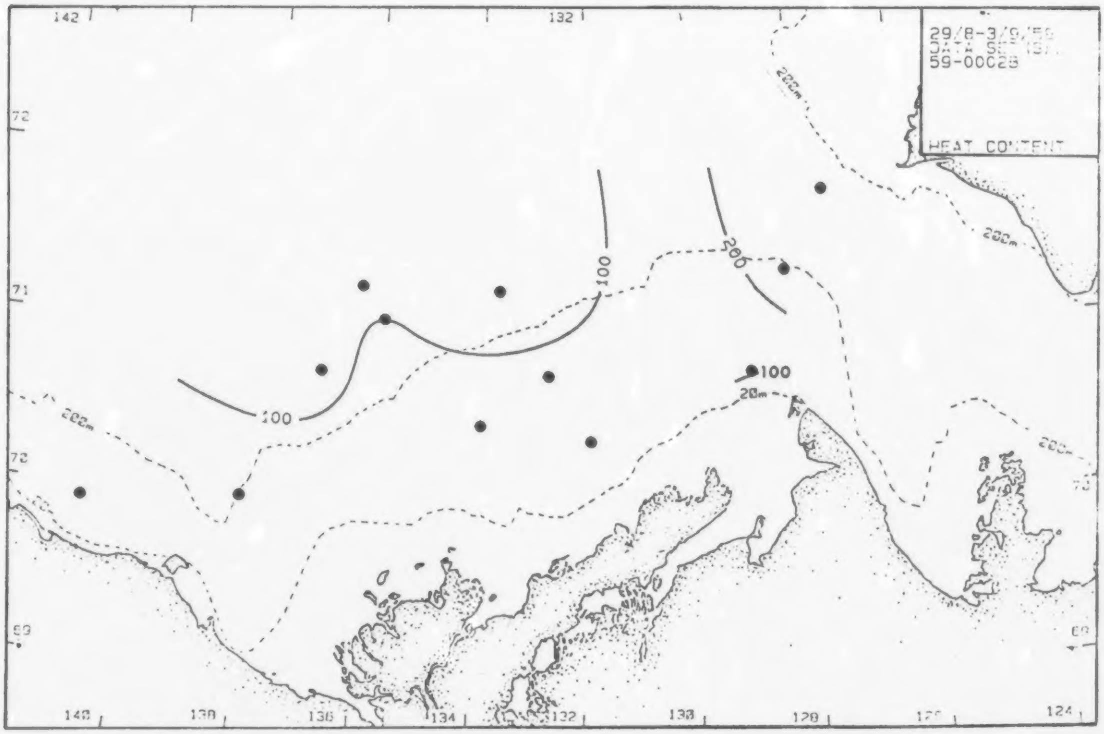

2-4/9/1958
DATA SET(S):
58-0001 A
FRESHWATER CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
0.0
-0.5
0

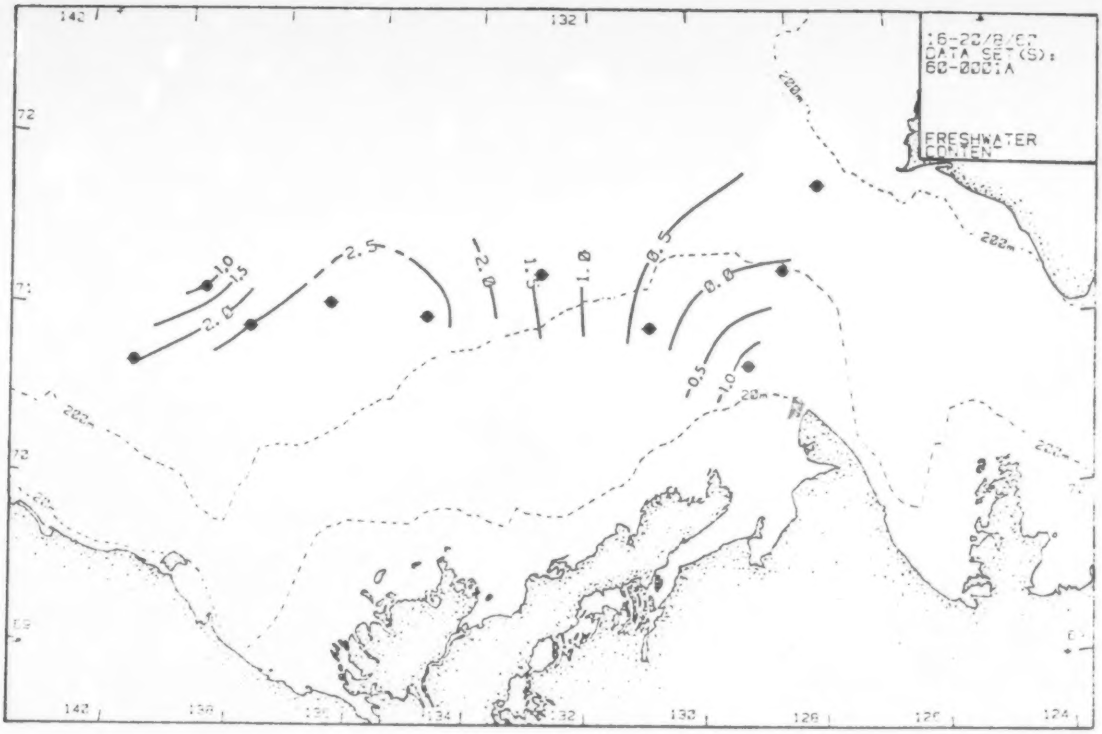

2-4/9/1958
DATA SET(S):
58-0001 A
HEAT CONTENT
142
132
72
71
70
69
138
136
134
130
128
126
124
200m
20m
300
400
500
600

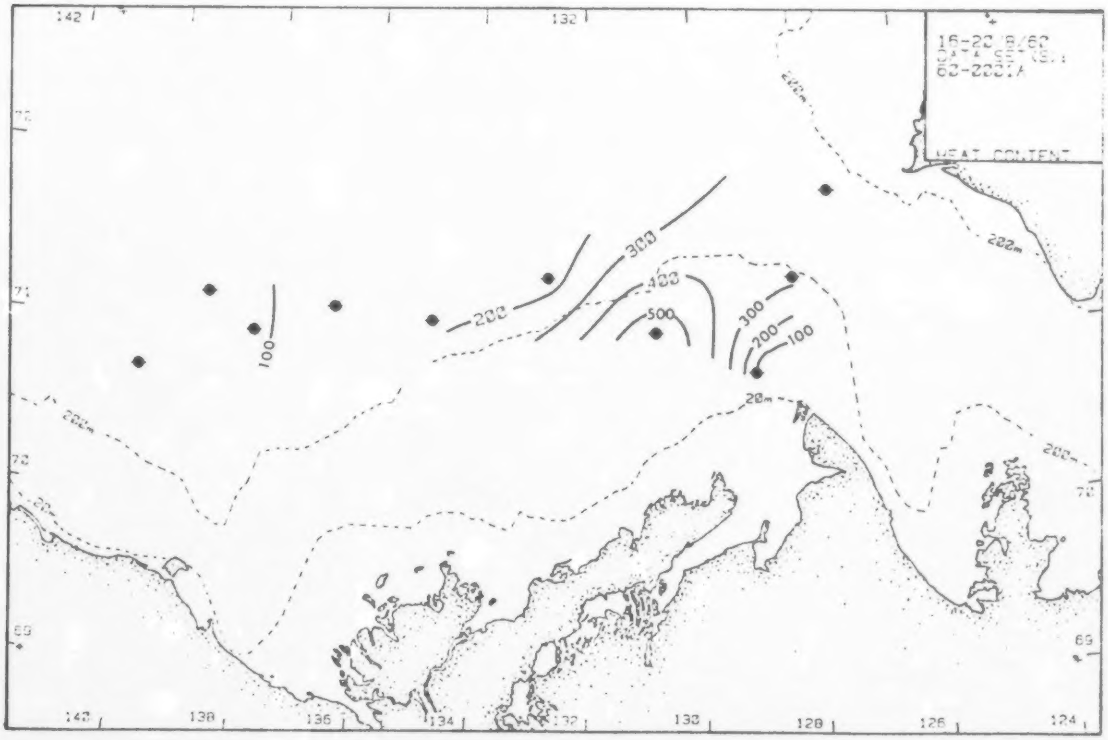

A: 7/6-24/7/59
DATA SET(S):
59-000IA
FRESHWATER
CONTENT
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
0
0.5
222m
22m

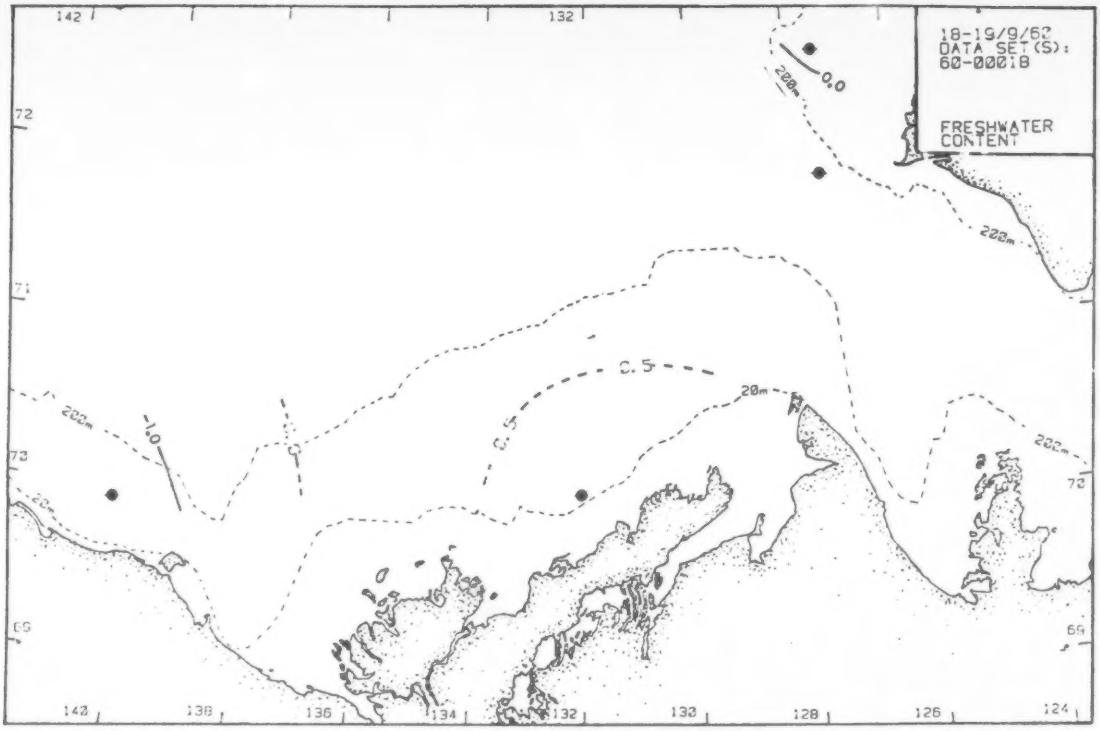

A: 7/6-24/7/59
DATA SET(S):
59-000IA
HEAT CONTENT
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
<0
222m
20m

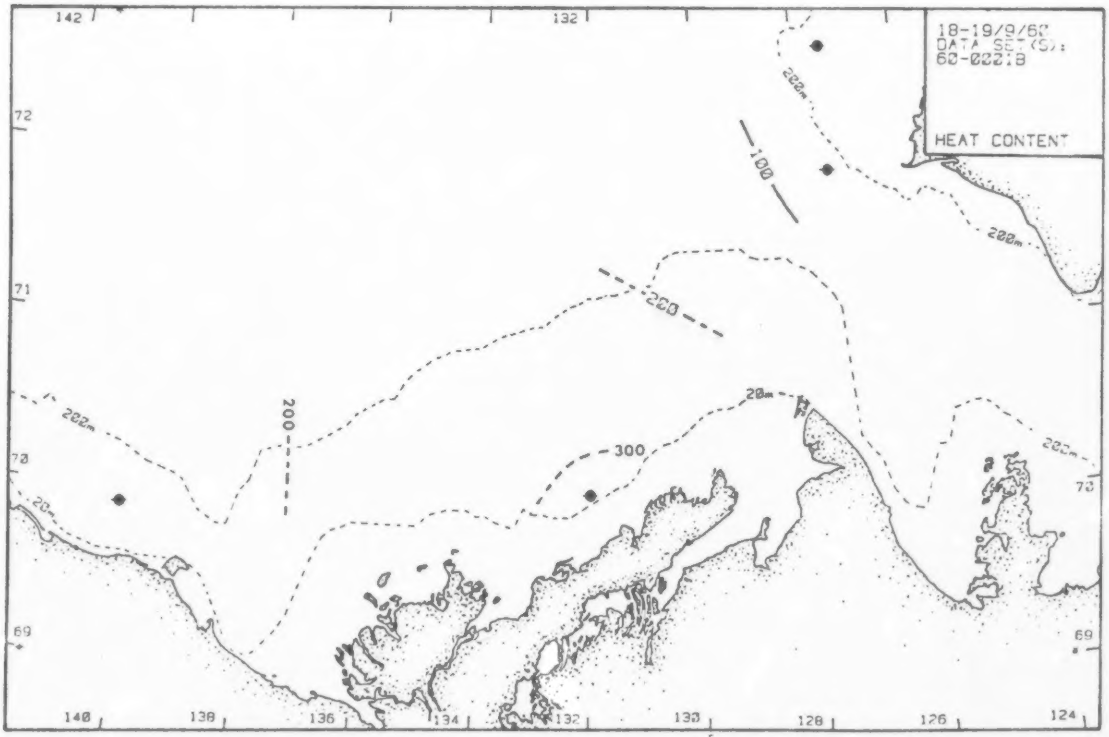

29/8-3/9/59
DATA SET(S):
59-00028
FRESHWATER CONTENT
142
132
72
71
70
69
140
138
136
134
130
128
126
124
200m
20m
-0.5
0
0.5
1.0
1.5
-0.5

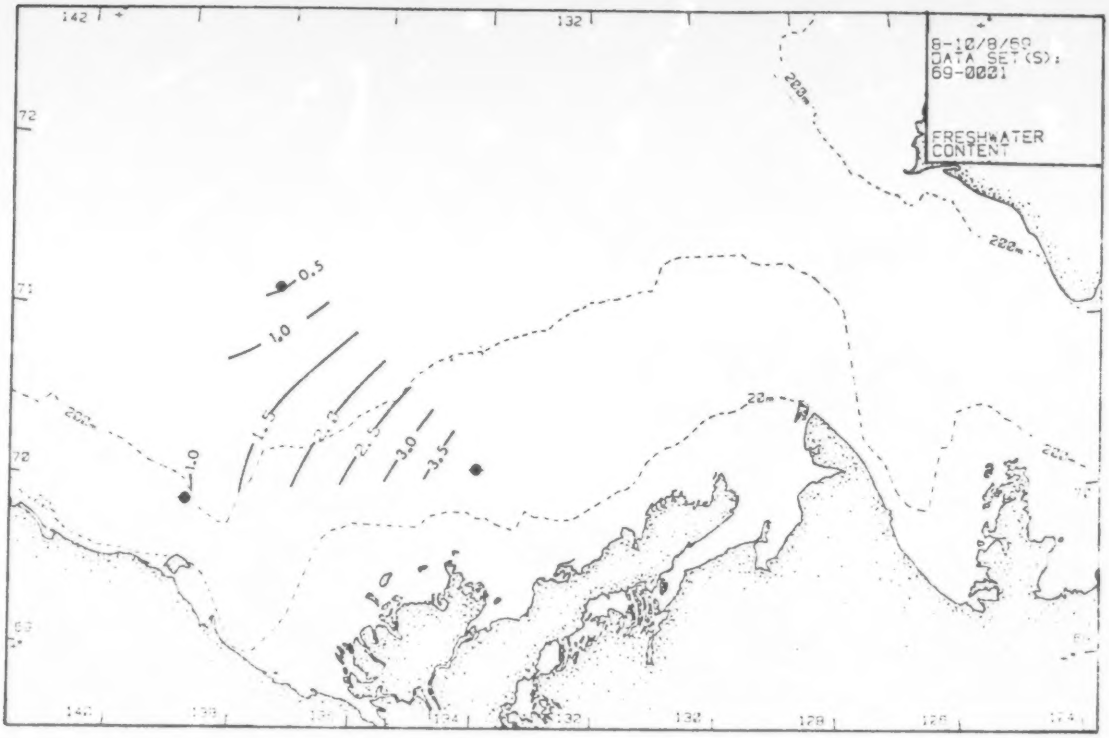

29/8-3/9/59
DATA SET(S):
59-00028
HEAT CONTENT
142
132
72
71
70
69
140
138
136
134
130
128
126
124
200m
20m
100
200

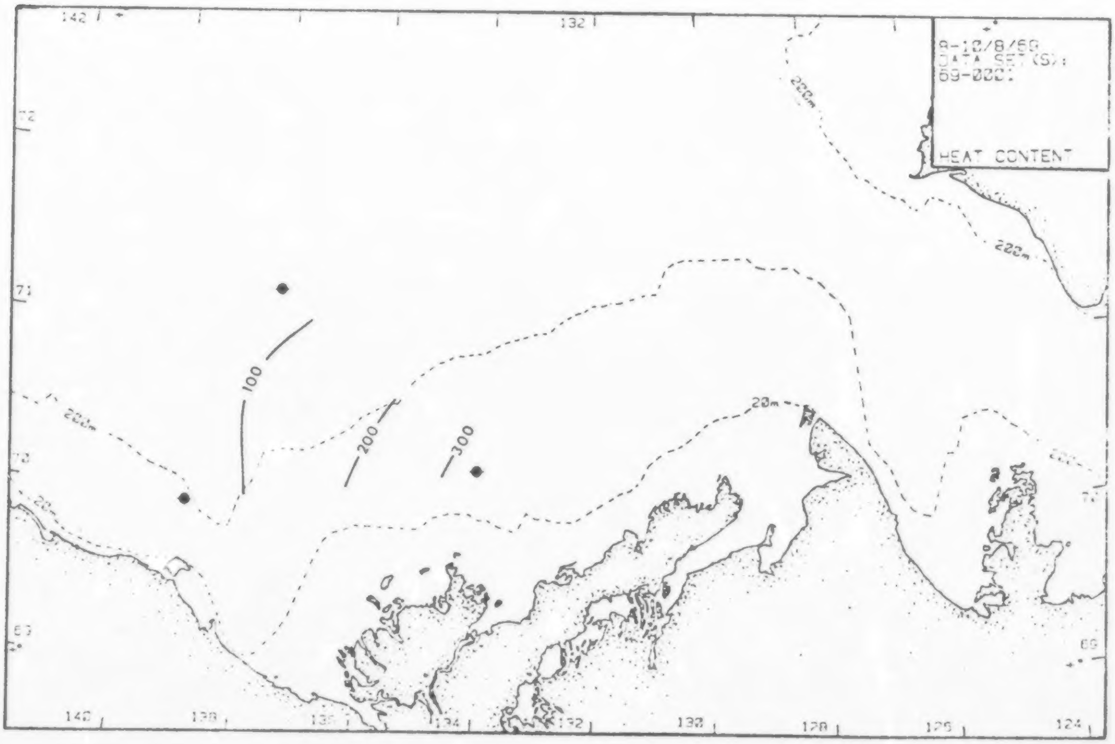

16-20/8/60
DATA SET(S):
60-0001A
FRESHWATER
CONTEN
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
1.0
1.5
2.0
2.5
-2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
200m
20m

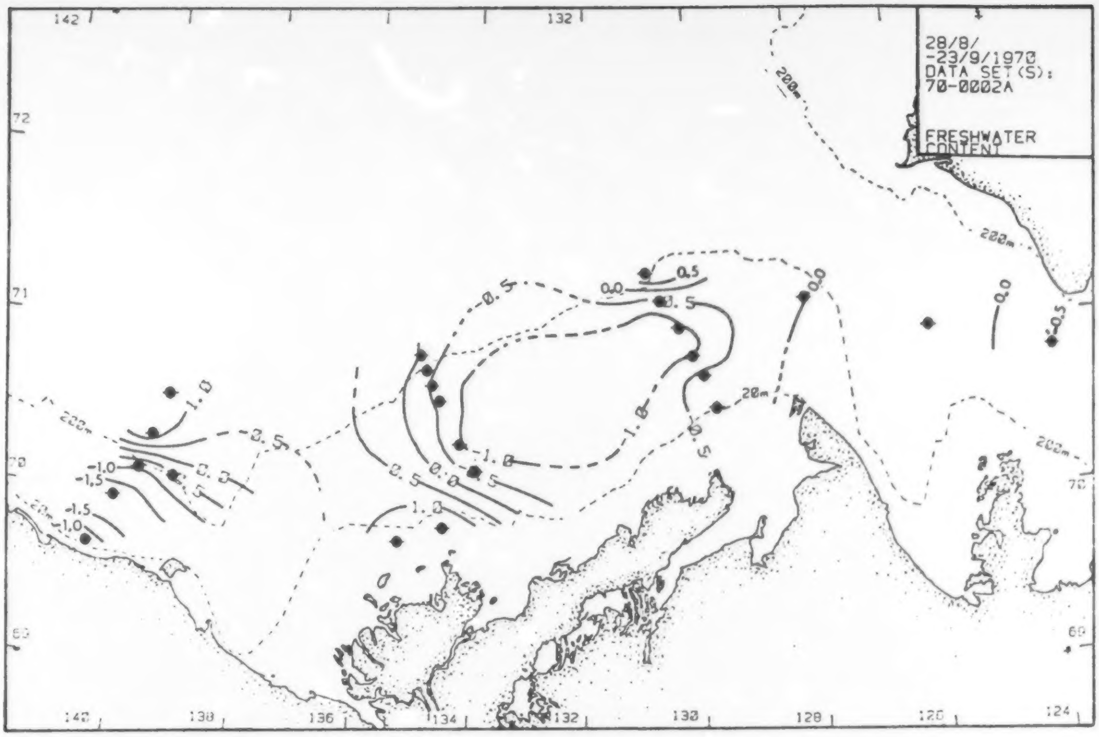

16-20/8/60
DATA SET(S):
60-0001A
HEAT CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
100
200
300
400
500
300
200
100
200m
20m

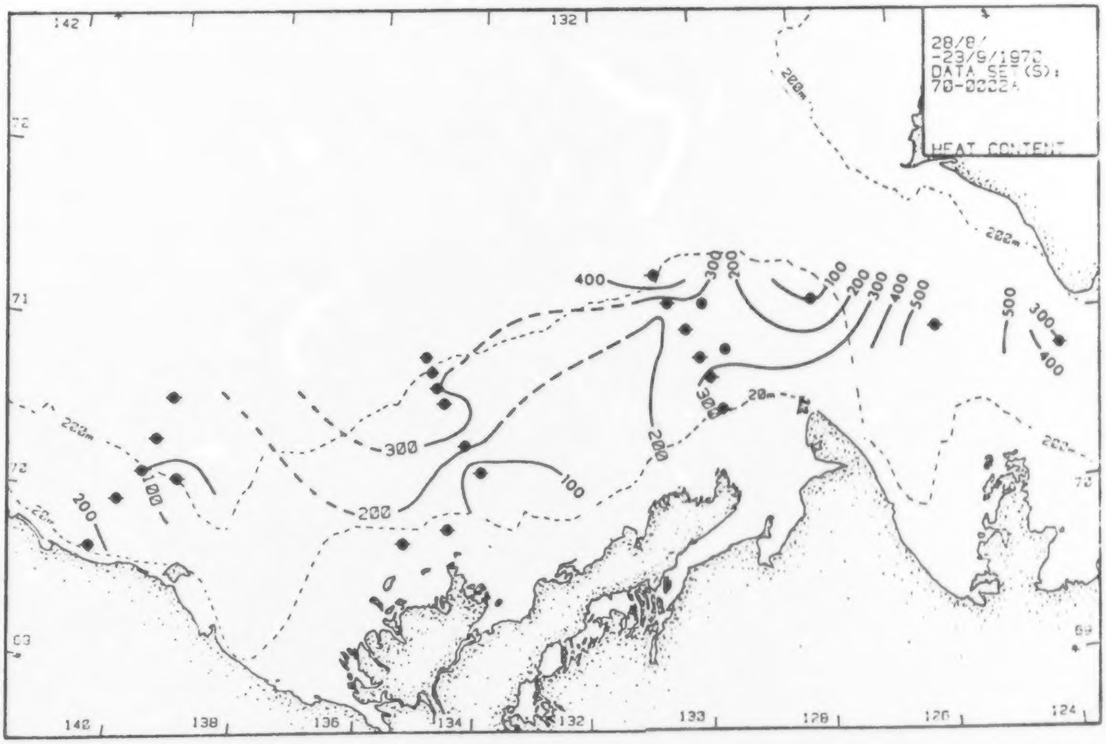

18-19/9/60
DATA SET(S):
60-0001B
FRESHWATER CONTENT
0.0
1.0
0.5
0.5
200m
20m
142
132
138
136
134
130
128
126
124
72
71
70
69

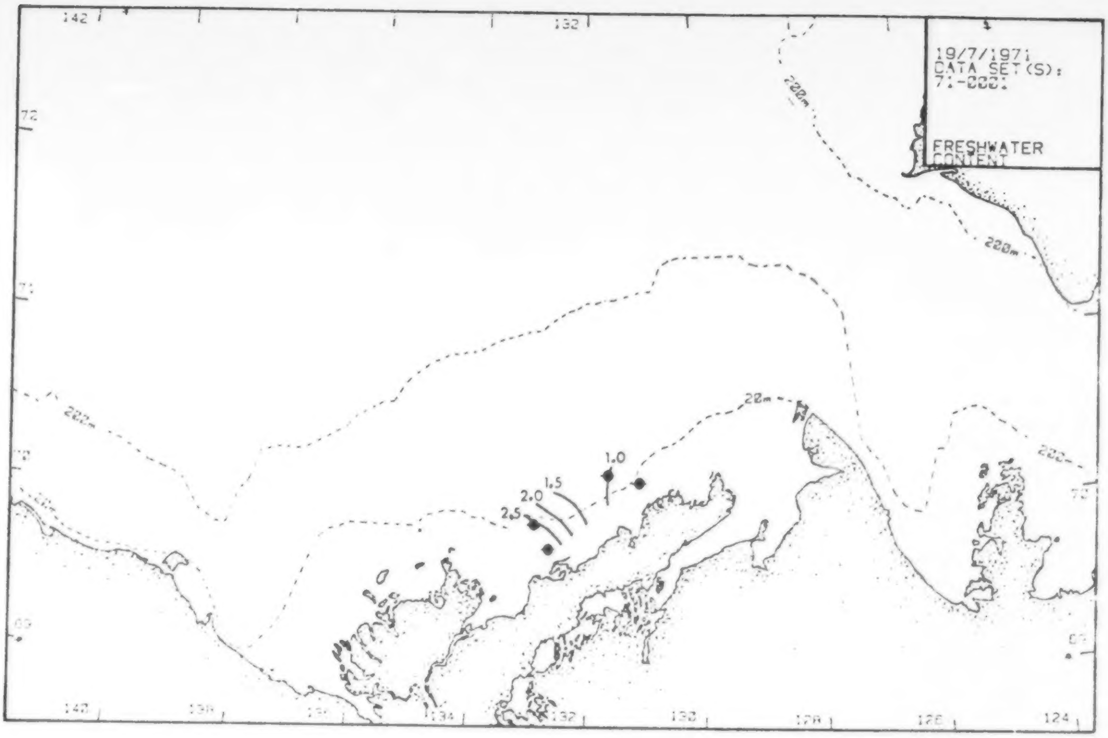

18-19/9/60
DATA SET(S):
60-0001B
HEAT CONTENT
100
200
200
300
200m
20m
142
132
140
138
136
134
130
128
126
124
72
71
70
69

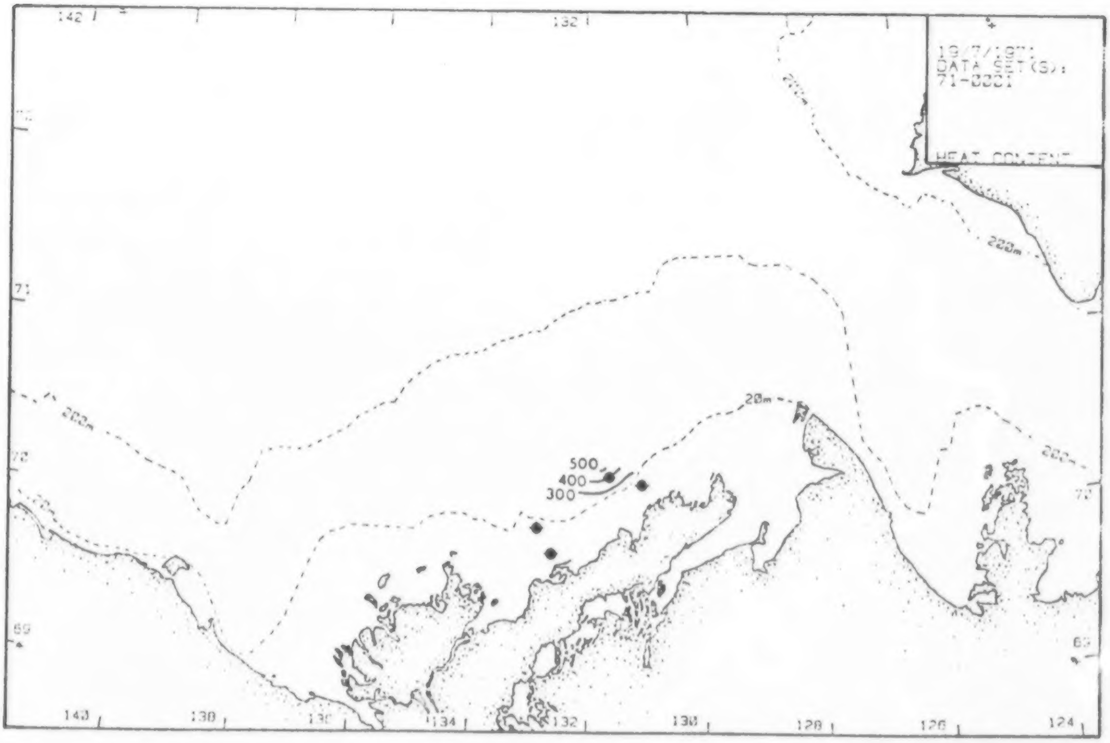

8-10/8/69
DATA SET(S):
69-0001
FRESHWATER
CONTENT
0.5
1.0
1.5
2.0
2.5
3.0
3.5
1.0
200m
20m
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69

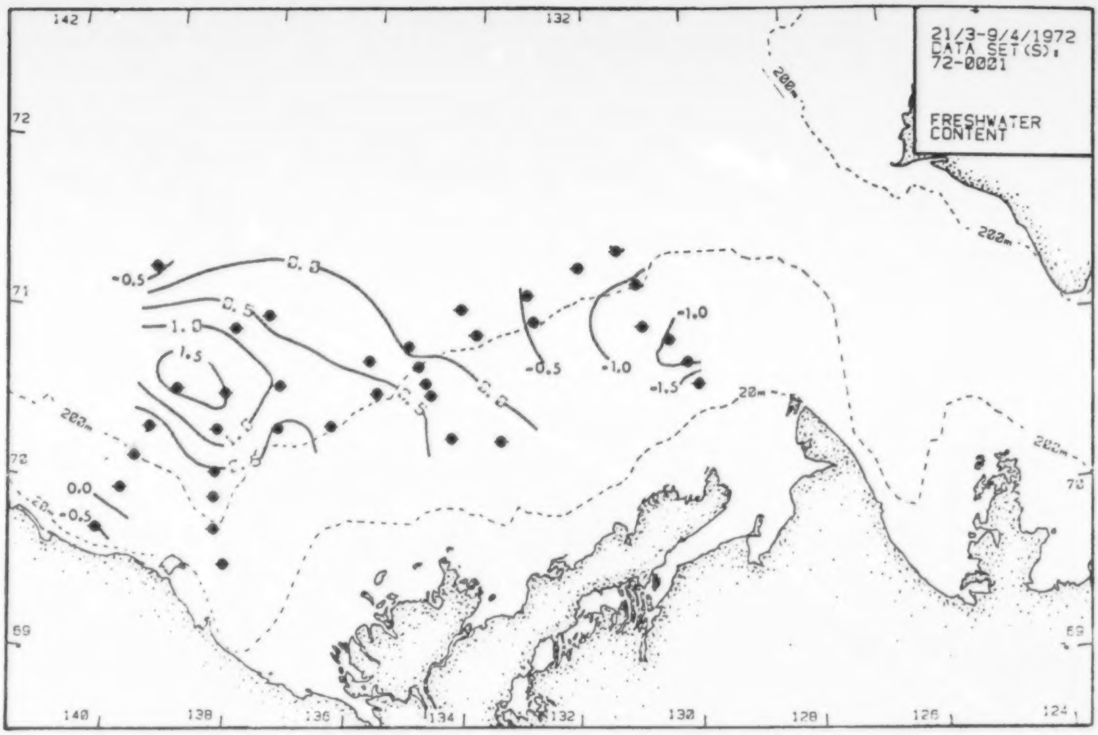

8-10/8/69
DATA SET(S):
69-0001
HEAT CONTENT
100
200
300
200m
20m
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69

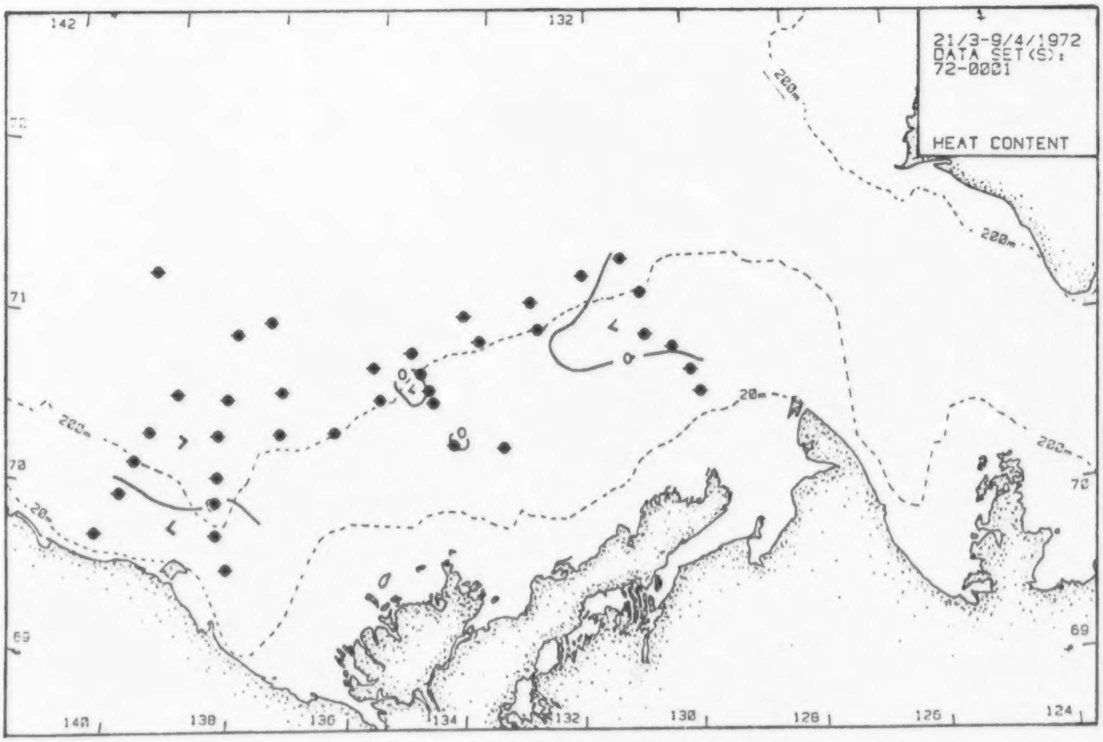

28/8/
-23/9/1970
DATA SET(S):
70-0002A
FRESHWATER CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
0.5
0.0
-0.5
1.0
-1.0
-1.5

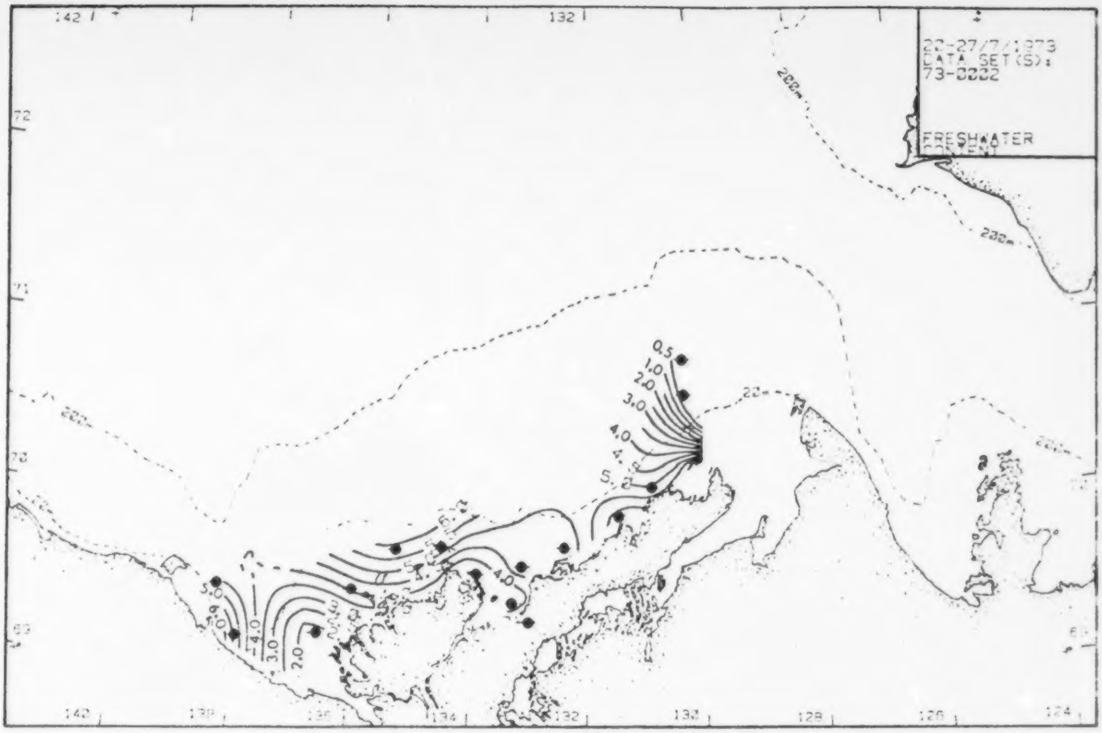

28/8/
-23/9/1970
DATA SET(S):
70-0002A
HEAT CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m
100
200
300
400
500

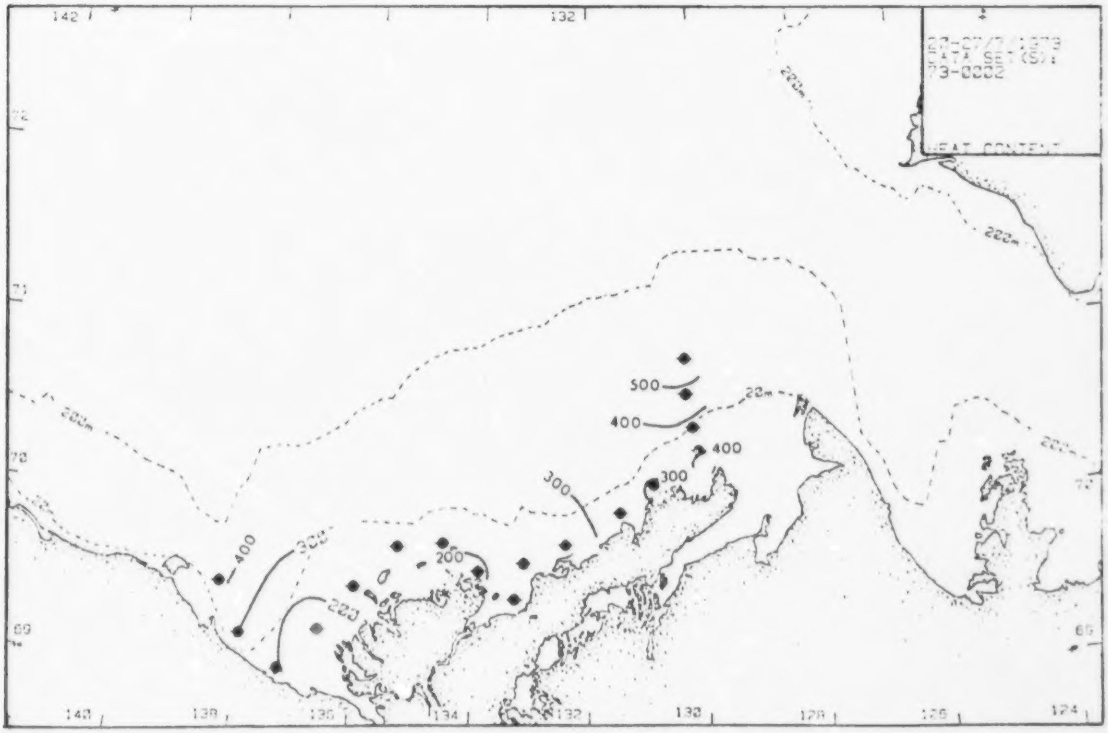

19/7/1971
DATA SET(S):
71-0001
FRESHWATER
CONTENT
142
132
140
138
136
134
132
130
128
126
124
72
71
70
69
200m
20m
1.0
1.5
2.0
2.5

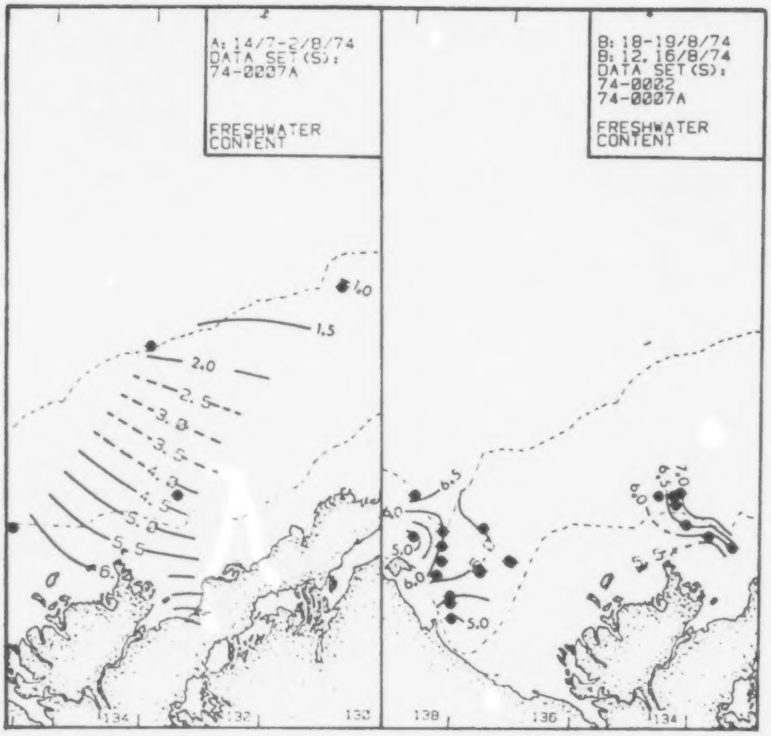

19/7/1971
DATA SET(S):
71-0001
HEAT CONTENT
142
132
140
138
136
134
132
130
128
126
124
71
70
69
200m
20m
500
400
300

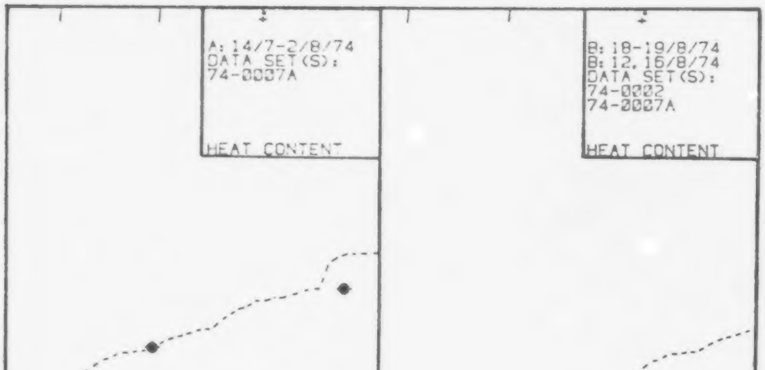

21/3-9/4/1972
DATA SET(S):
72-0001
FRESHWATER
CONTENT
142
132
72
71
70
69
200m
20m
-0.5
0.0
0.5
-1.0
1.5
-1.0
-0.5
-1.0
-1.5
0.0
-0.5
140
138
136
134
132
130
128
126
124

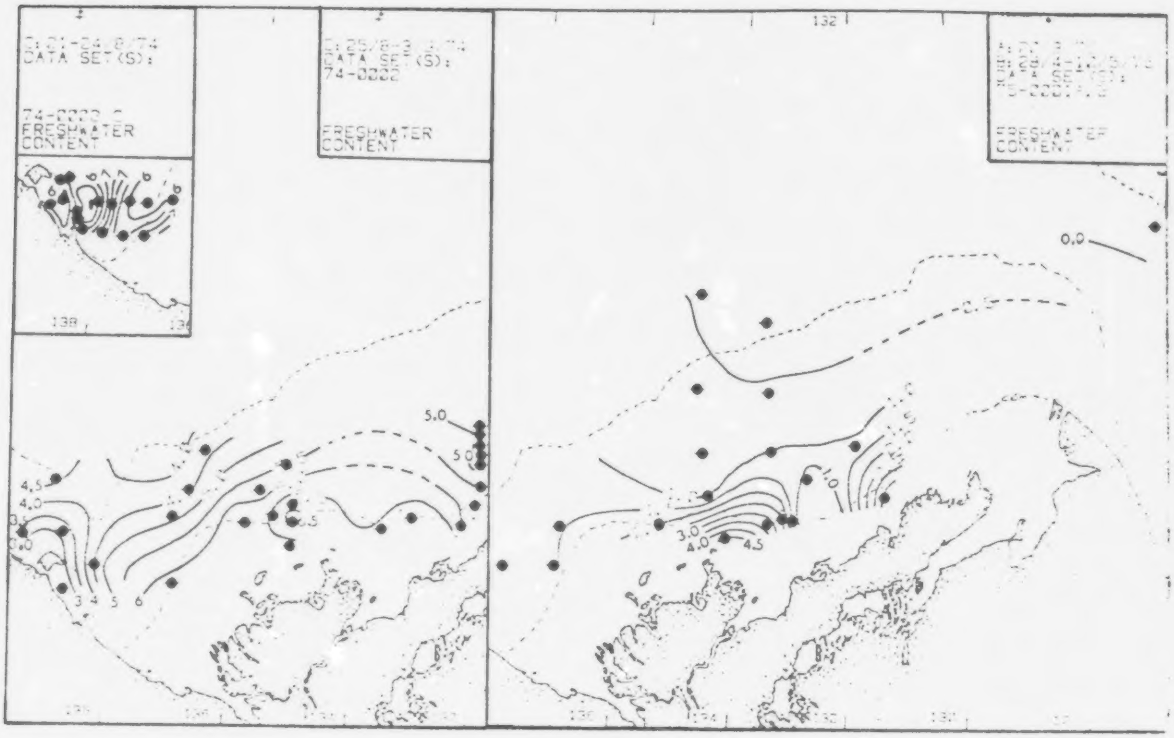

21/3-9/4/1972
DATA SET(S):
72-0001
HEAT CONTENT
142
132
72
71
70
69
200m
20m
L
0
140
138
136
134
132
130
128
126
124

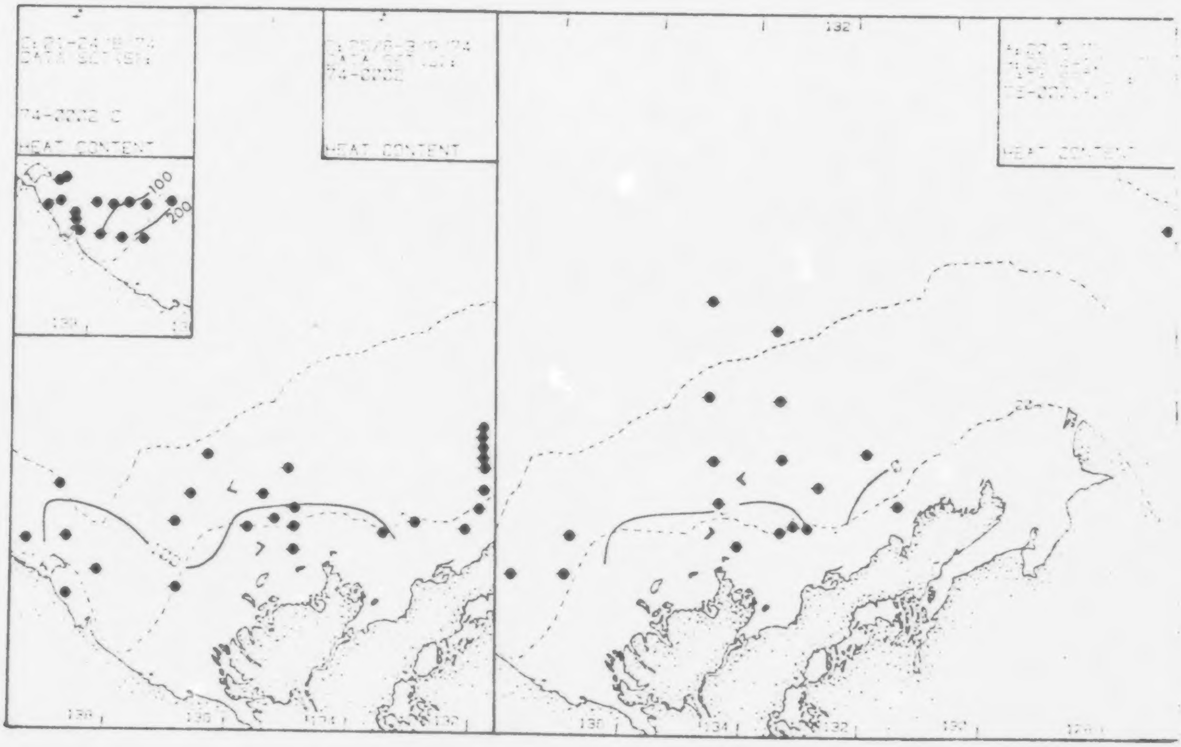

142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
22-27/7/1973
DATA SET(S):
73-0002
FRESHWATER CONTENT
200m
0.5
1.0
2.0
3.0
4.0
4.5
5.0
3.0
4.0
2.0

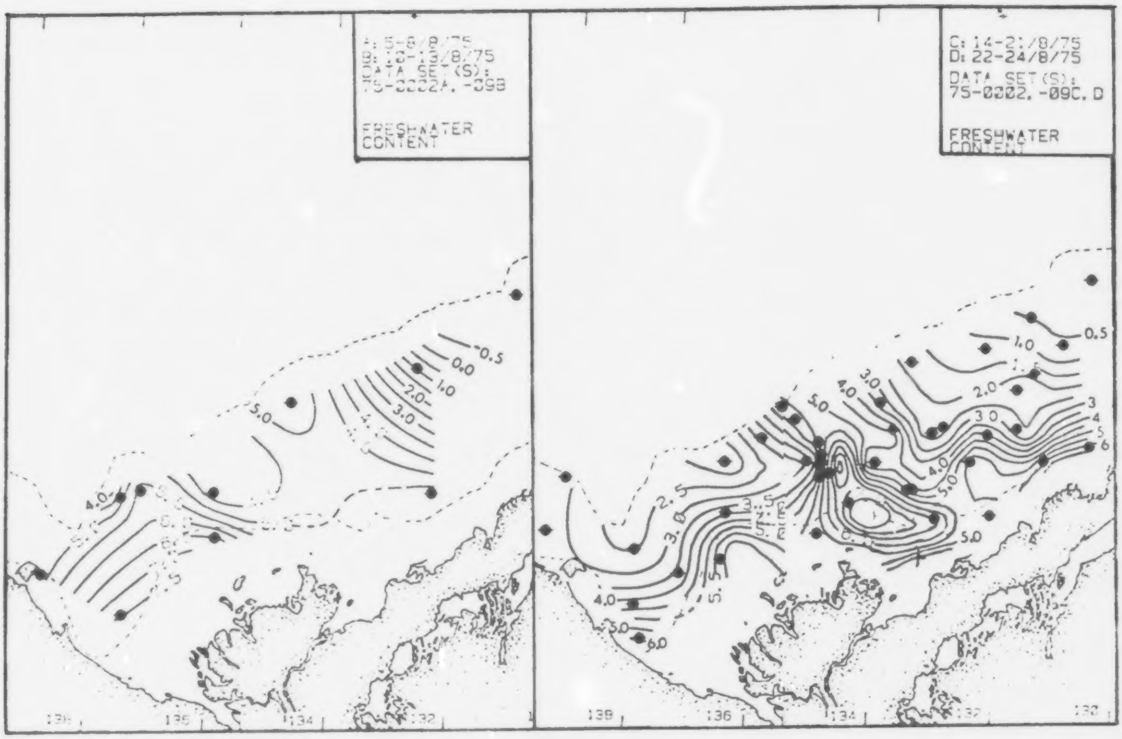

142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
22-27/7/1973
DATA SET(S):
73-0002
HEAT CONTENT
200m
500
400
400
300
300
300
400
200
200

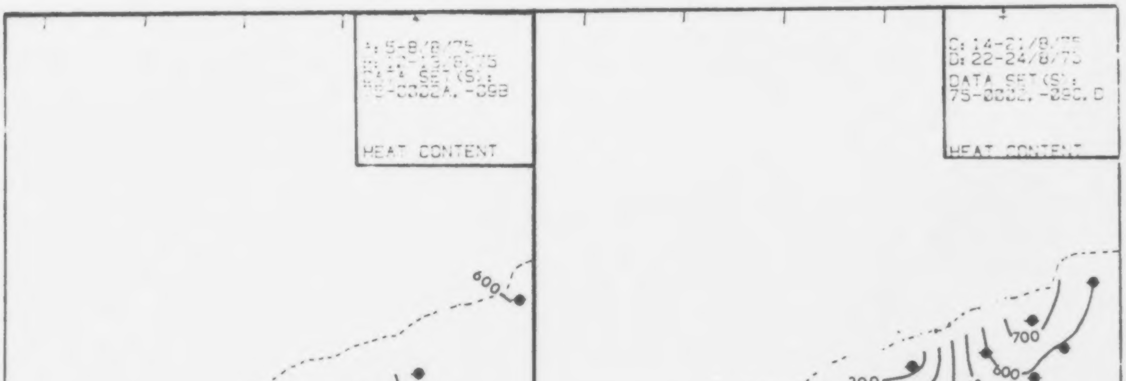

A: 14/7-2/8/74
DATA SET(S):
74-0007A
FRESHWATER CONTENT
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
134
132
130
B: 18-19/8/74
B: 12,16/8/74
DATA SET(S):
74-0002
74-0007A
FRESHWATER CONTENT
6.5
6.0
5.0
5.5
7.0
138
136
134

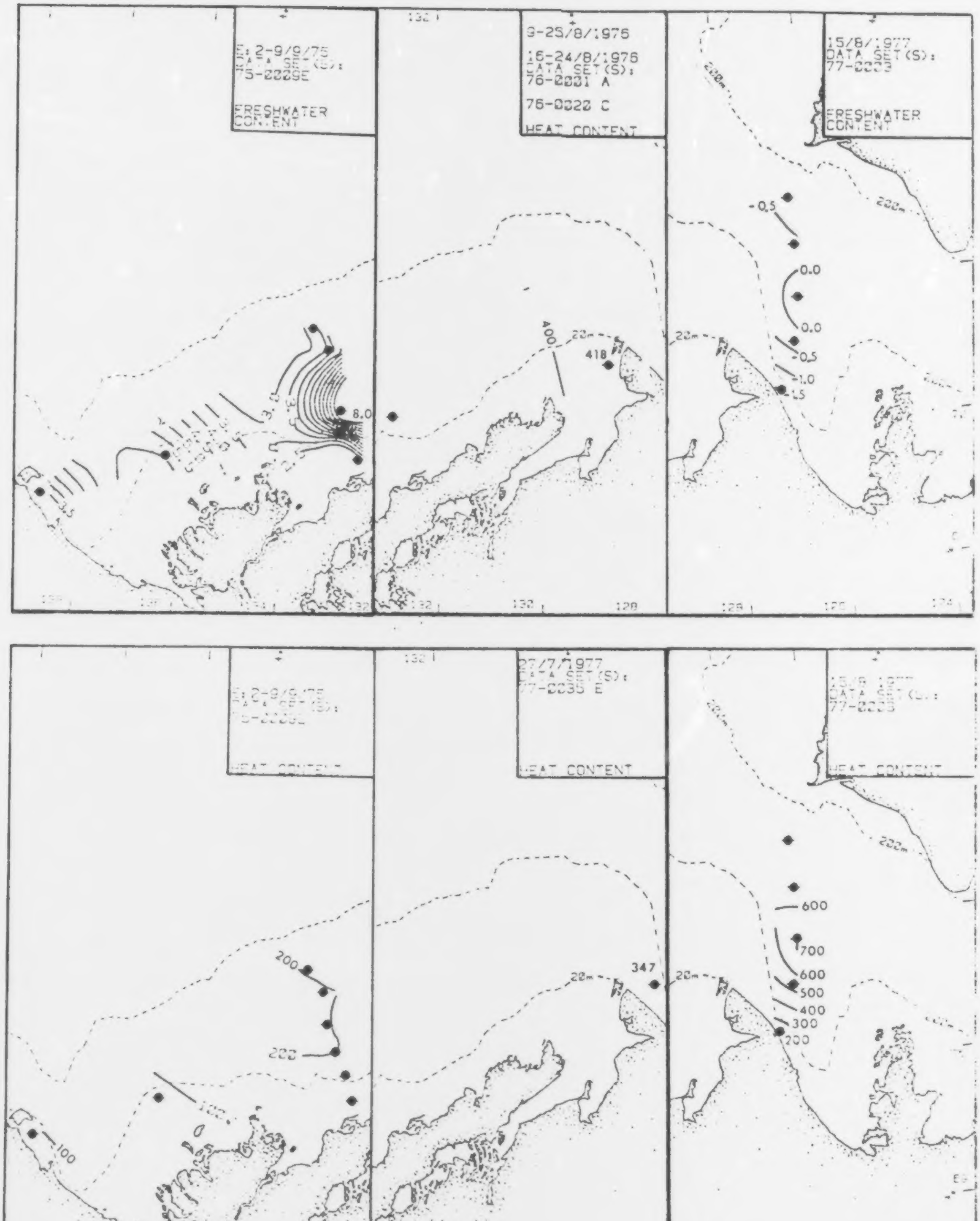

A: 14/7-2/8/74
DATA SET(S):
74-0007A
HEAT CONTENT
100
200
300
400
134
132
130
B: 18-19/8/74
B: 12,16/8/74
DATA SET(S):
74-0002
74-0007A
HEAT CONTENT
100
200
138
136
134

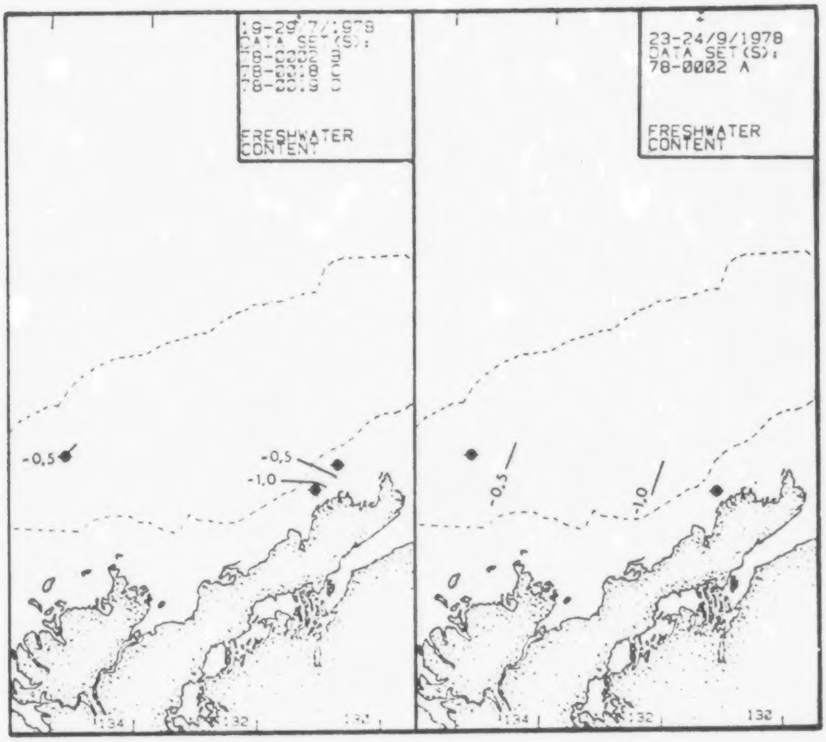

C:21-24/8/74
DATA SET(S):
74-0002 C
FRESHWATER CONTENT
C:25/8-3/9/74
DATA SET(S):
74-0002
FRESHWATER CONTENT
B:28/4-12/5/75
DATA SET(S):
FRESHWATER CONTENT
138
132
0.0
5.0
4.5
4.0
3.5
3.0
4.0
4.5
1.0
3
4
5
6
136
134
130

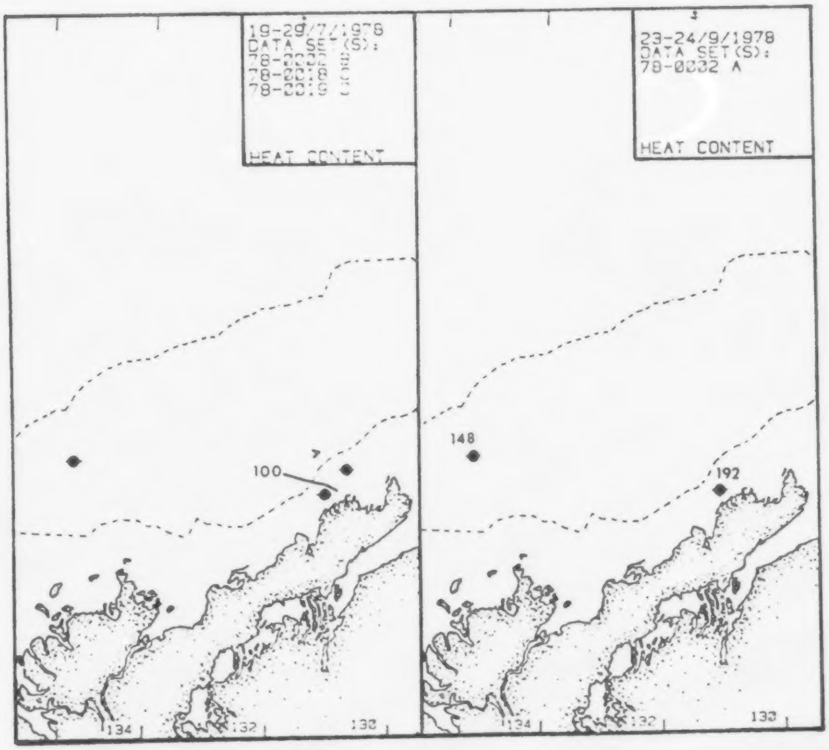

C:21-24/8/74
DATA SET(S):
74-0002 C
HEAT CONTENT
C:25/8-3/9/74
DATA SET(S):
74-0002
HEAT CONTENT
HEAT CONTENT
100
200
132
138
136
134
130
128

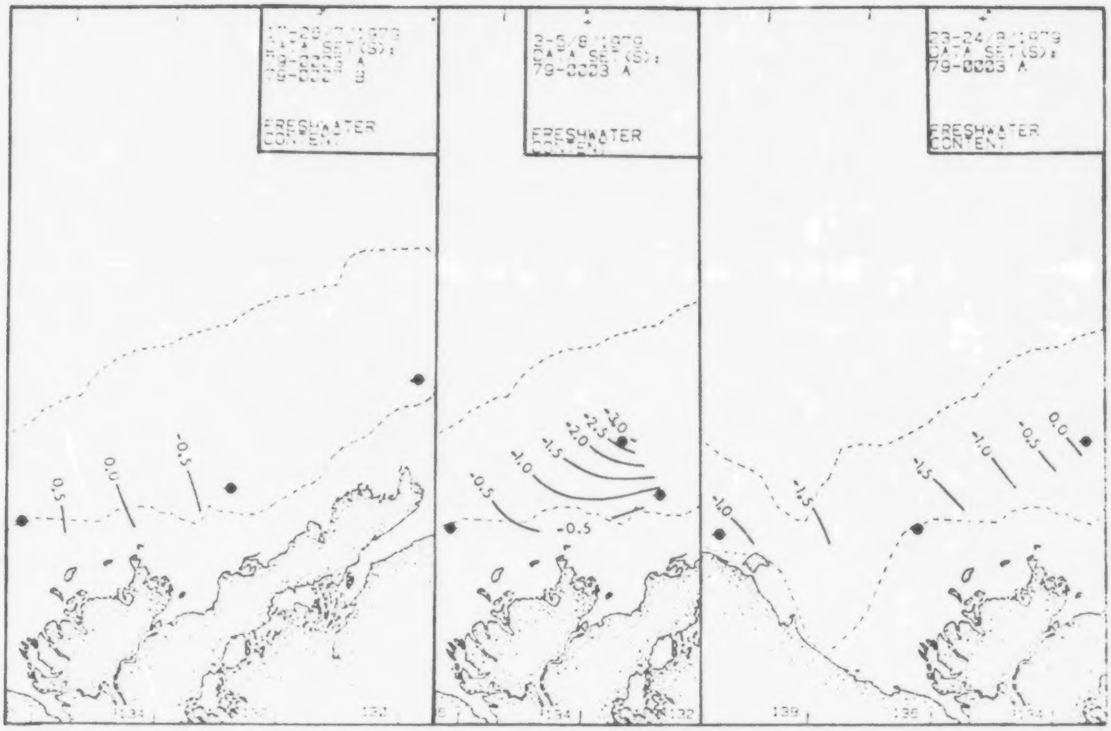

A: 5-8/8/75
B: 10-13/8/75
DATA SET(S):
75-0002A, -09B
FRESHWATER CONTENT
C: 14-21/8/75
D: 22-24/8/75
DATA SET(S):
75-0002, -09C, D
FRESHWATER CONTENT
0.5
0.0
1.0
2.0
3.0
4.0
5.0
2.5
3.5
5.5
6.0
138
136
134
132
130

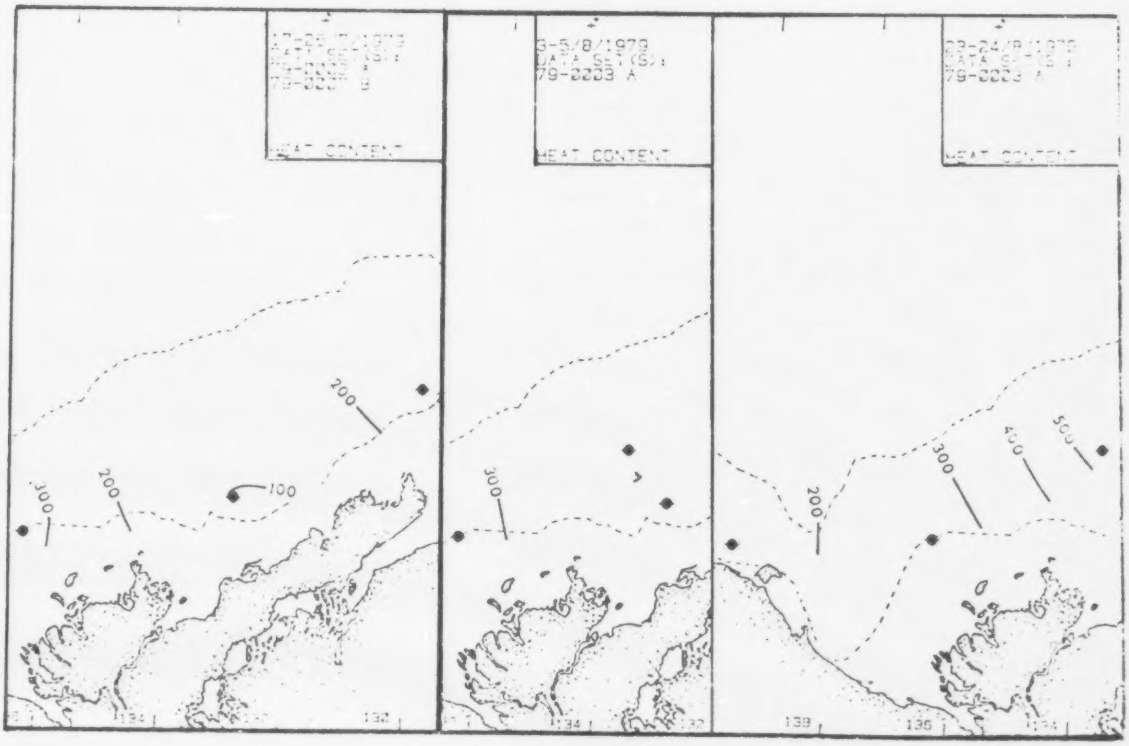

A: 5-8/8/75
B: 10-13/8/75
DATA SET(S):
75-0002A, -09B
HEAT CONTENT
C: 14-21/8/75
D: 22-24/8/75
DATA SET(S):
75-0002, -09C, D
HEAT CONTENT
600
500
300
200
100
0
400
700
138
136
134
132
130

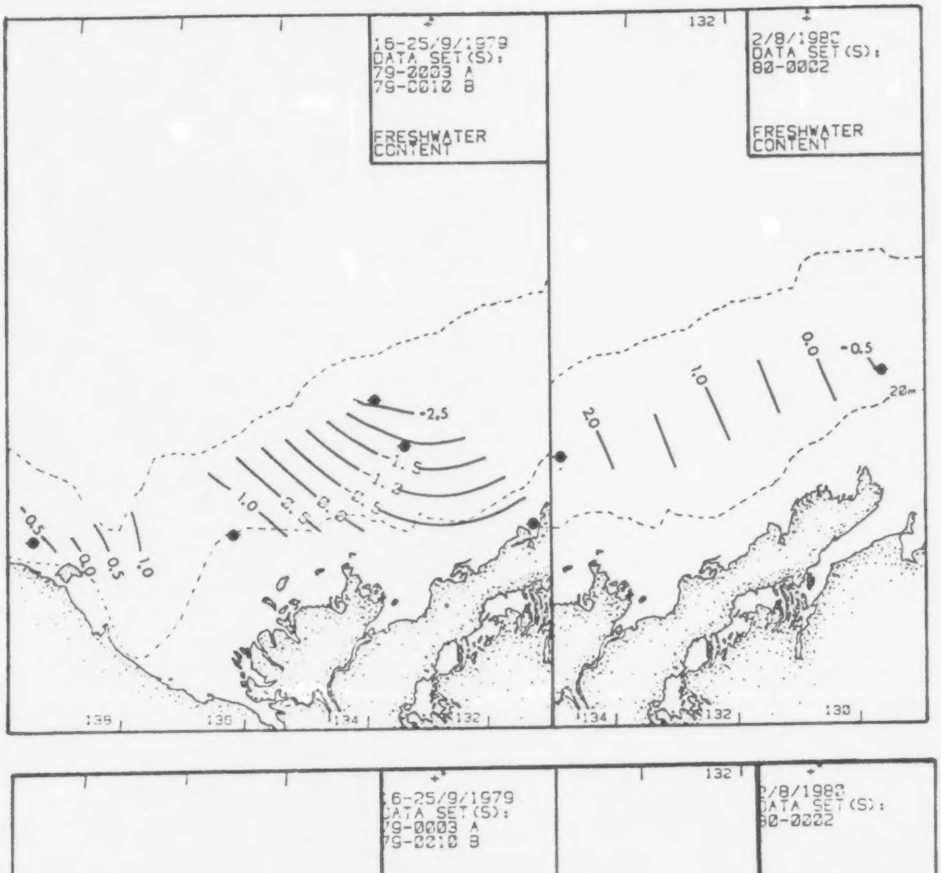

E: 2-9/9/75
DATA SET(S):
75-2229E
FRESHWATER CONTENT
3.5
3.0
8.0
9-25/8/1976
16-24/8/1976
DATA SET(S):
76-2031 A
76-2022 C
HEAT CONTENT
400
418
20m
15/8/1977
DATA SET(S):
77-2223
FRESHWATER CONTENT
200m
-0.5
0.0
0.0
-0.5
-1.0
-1.5
E: 2-9/9/75
DATA SET(S):
75-2229E
HEAT CONTENT
200
200
100
100
27/7/1977
DATA SET(S):
77-2035 E
HEAT CONTENT
347
20m
15/8/1977
DATA SET(S):
77-2223
HEAT CONTENT
200m
600
700
600
500
400
300
200
136
134
132
130
128
126
124

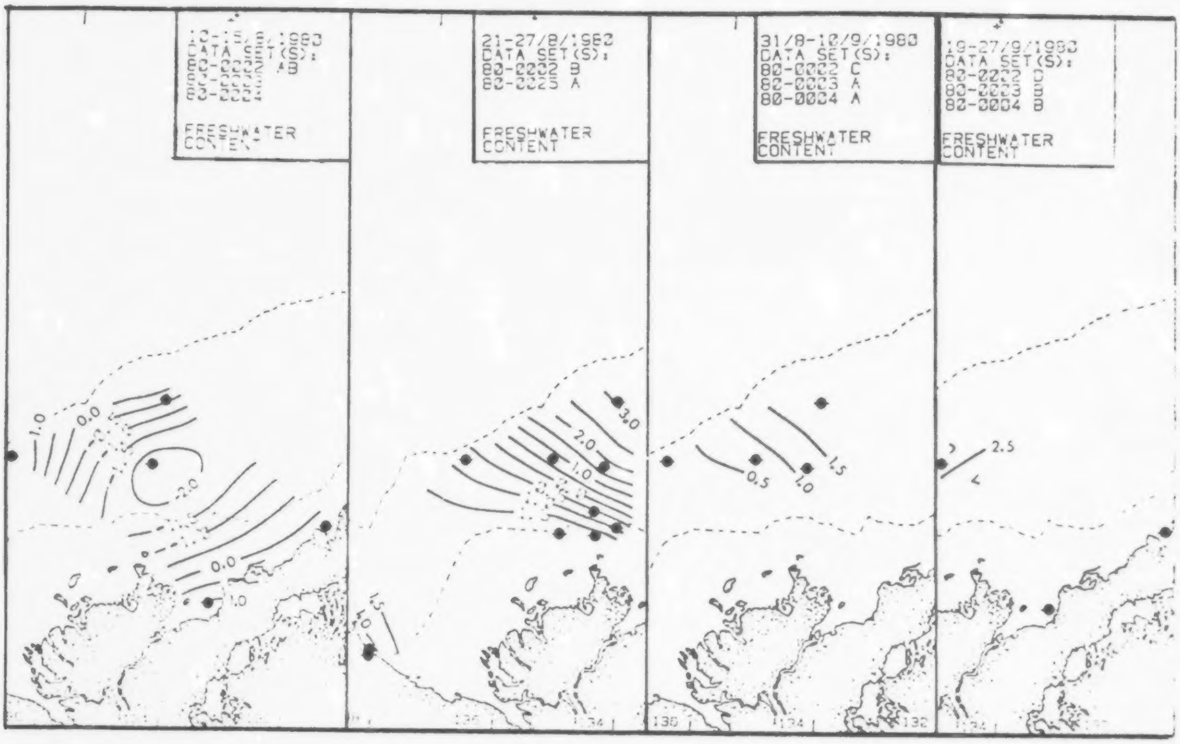

19-29/7/1978
DATA SET(S):
78-0002 B
78-0018 C
78-0019 C
FRESHWATER CONTENT
-0,5
-0,5
-1,0
134
132
130
23-24/9/1978
DATA SET(S):
78-0002 A
FRESHWATER CONTENT
-0,5
-1,0
134
132
130

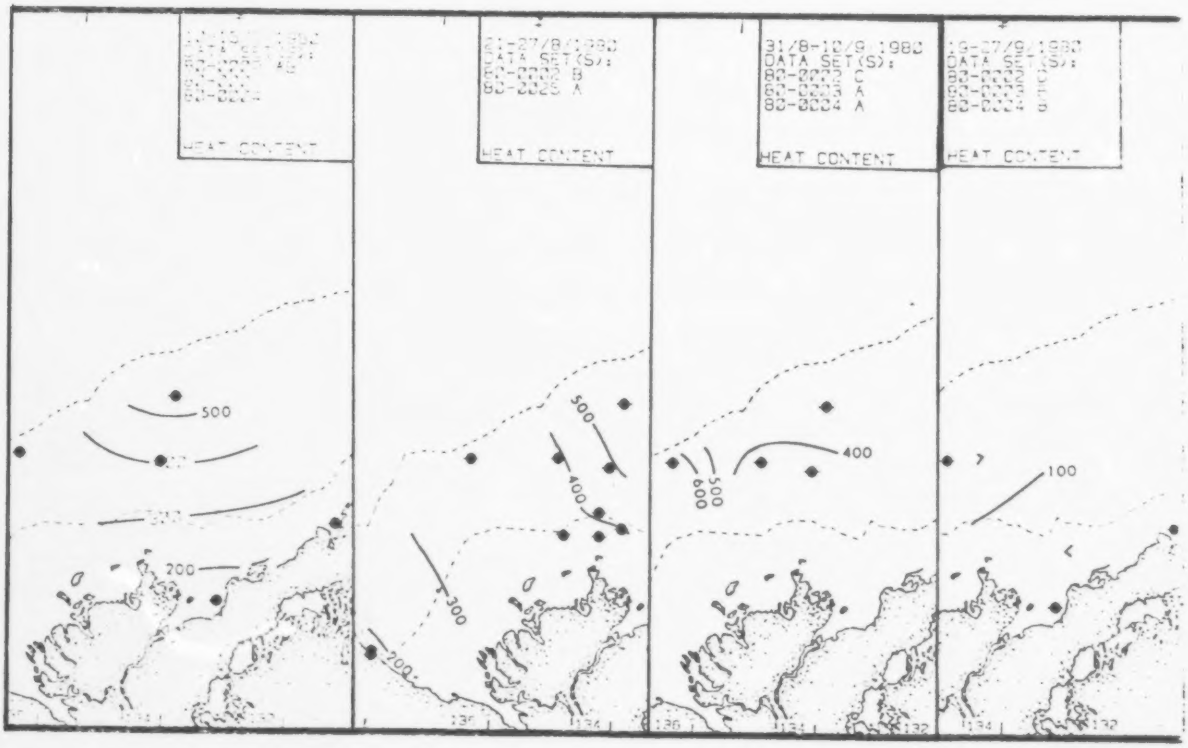

19-29/7/1978
DATA SET(S):
78-0002 B
78-0018 C
78-0019 C
HEAT CONTENT
100
134
132
130
23-24/9/1978
DATA SET(S):
78-0002 A
HEAT CONTENT
148
192
134
132
130

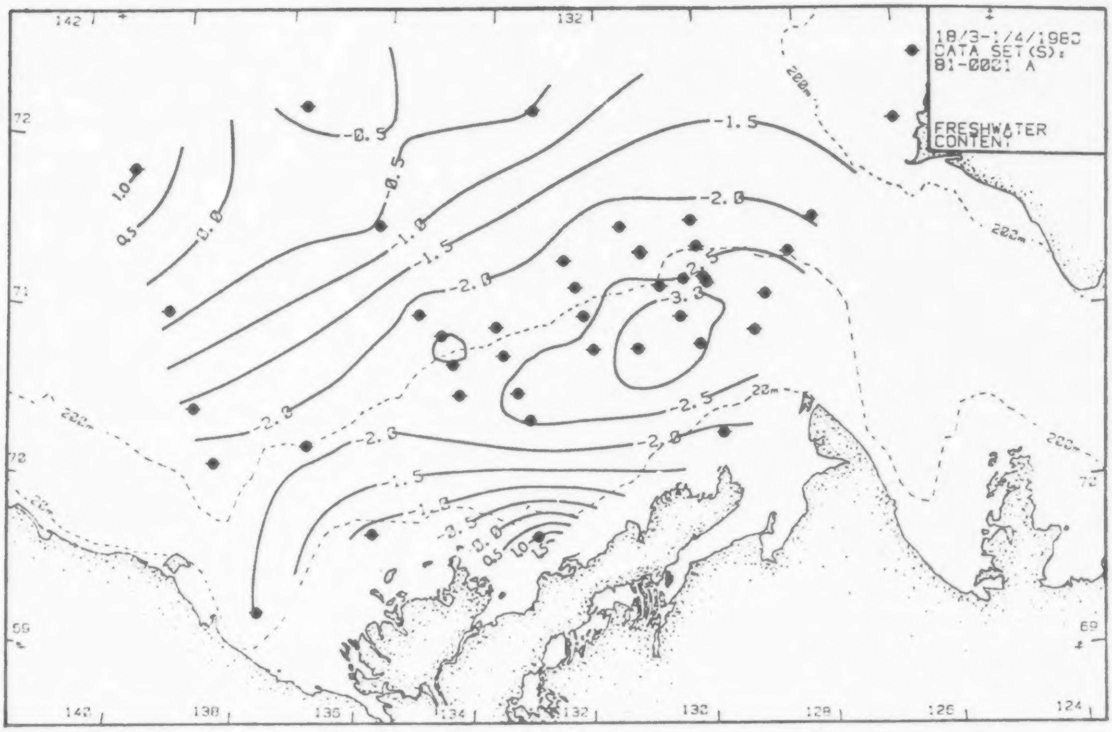

DATA SET(S):
79-0003 A
79-0003 B
FRESHWATER CONTENT
3-5/8/1979
DATA SET(S):
79-0003 A
FRESHWATER CONTENT
23-24/8/1979
DATA SET(S):
79-0003 A
FRESHWATER CONTENT
0.5
0.0
-0.5
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
-0.5
-1.0
-1.5
-1.5
-1.0
-0.5
0.0
134
132
134
132
139
136
134

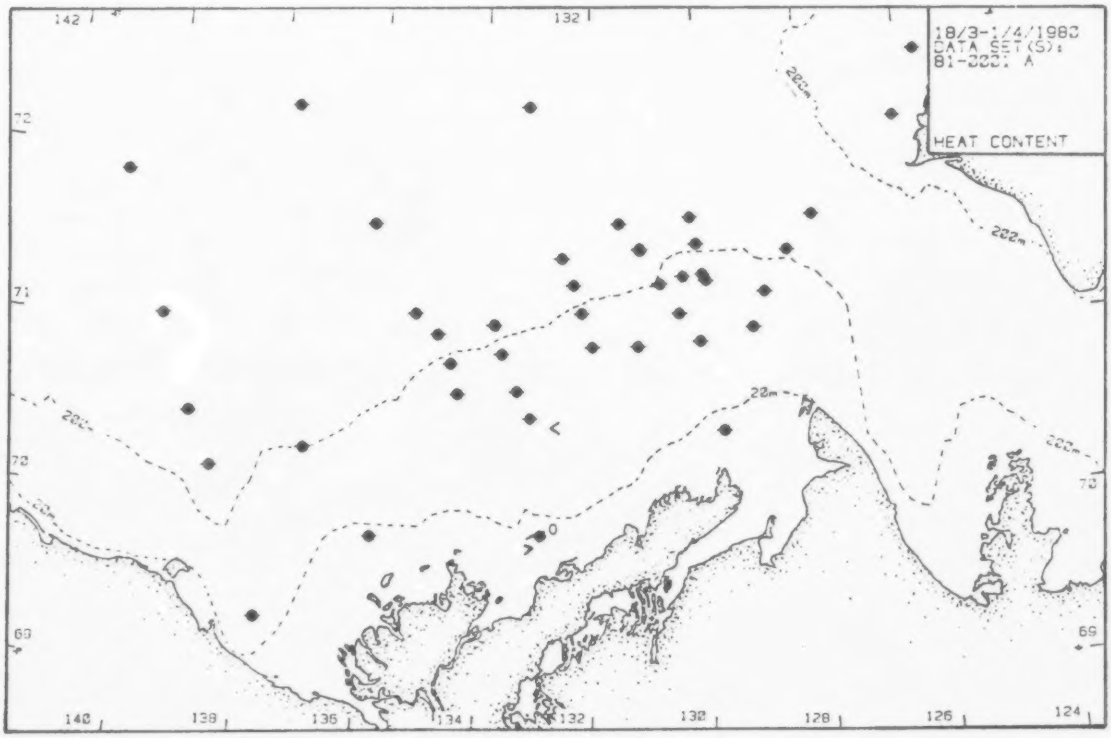

HEAT CONTENT
3-5/8/1979
DATA SET(S):
79-0003 A
HEAT CONTENT
DATA SET(S):
79-0003 A
HEAT CONTENT
300
200
100
200
300
200
300
400
500
134
132
134
132
139
136
134

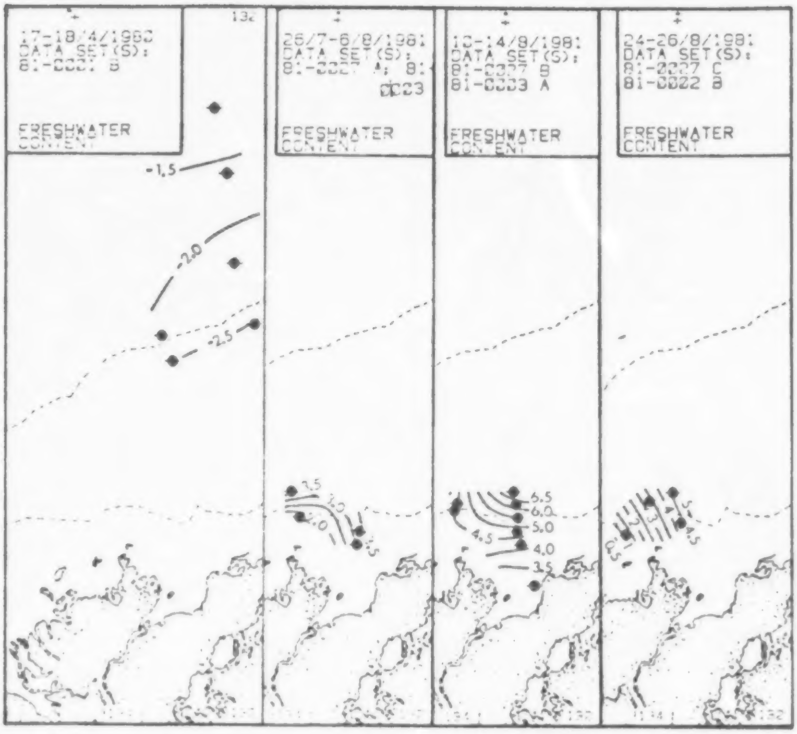

16-25/9/1979
DATA SET(S):
79-0003 A
79-0010 B
FRESHWATER CONTENT
-2.5
-1.5
-1.0
-0.5
0.0
0.5
1.0
2.5
-0.5
0.0
0.5
1.0
138
136
134
132
2/8/1980
DATA SET(S):
80-0002
FRESHWATER CONTENT
2.0
1.0
0.0
-0.5
20m
132
134
132
130
16-25/9/1979
DATA SET(S):
79-0003 A
79-0010 B
HEAT CONTENT
600
500
400
300
200
100
200
300
138
136
134
132
2/8/1980
DATA SET(S):
80-0002
HEAT CONTENT
130
145
20m
132
134
132
130

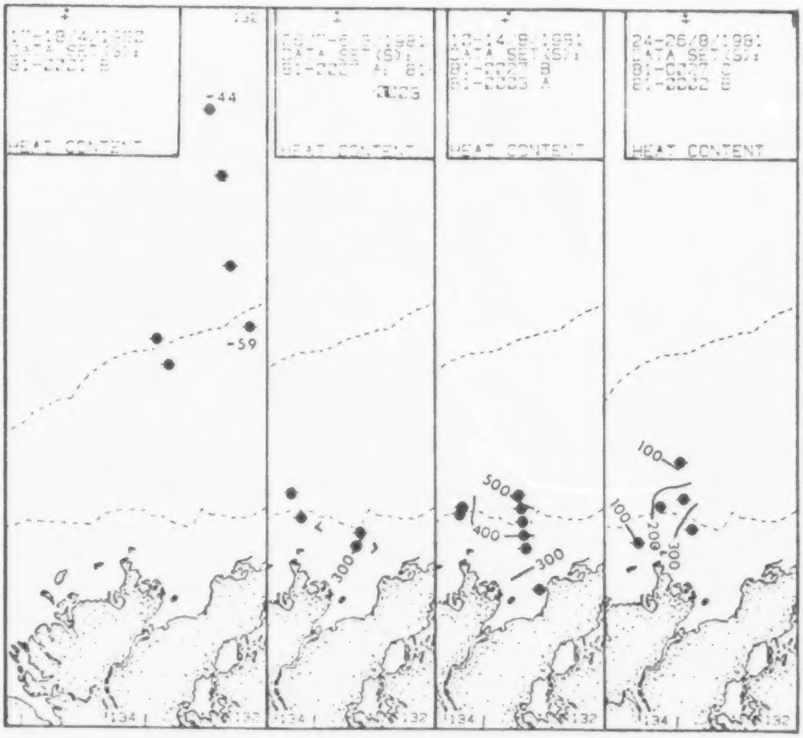

10-15/8/1980
DATA SET(S):
80-0002 AB
80-0003
80-0004
FRESHWATER CONTENT
21-27/8/1980
DATA SET(S):
80-0002 B
80-0025 A
FRESHWATER CONTENT
31/8-10/9/1980
DATA SET(S):
80-0002 C
80-0003 A
80-0004 A
FRESHWATER CONTENT
19-27/9/1980
DATA SET(S):
80-0002 D
80-0003 B
80-0004 B
FRESHWATER CONTENT
1.0
0.0
2.0
0.0
1.0
3.0
2.0
1.0
1.5
1.0
0.5
1.0
1.5
2.5
136
134
132

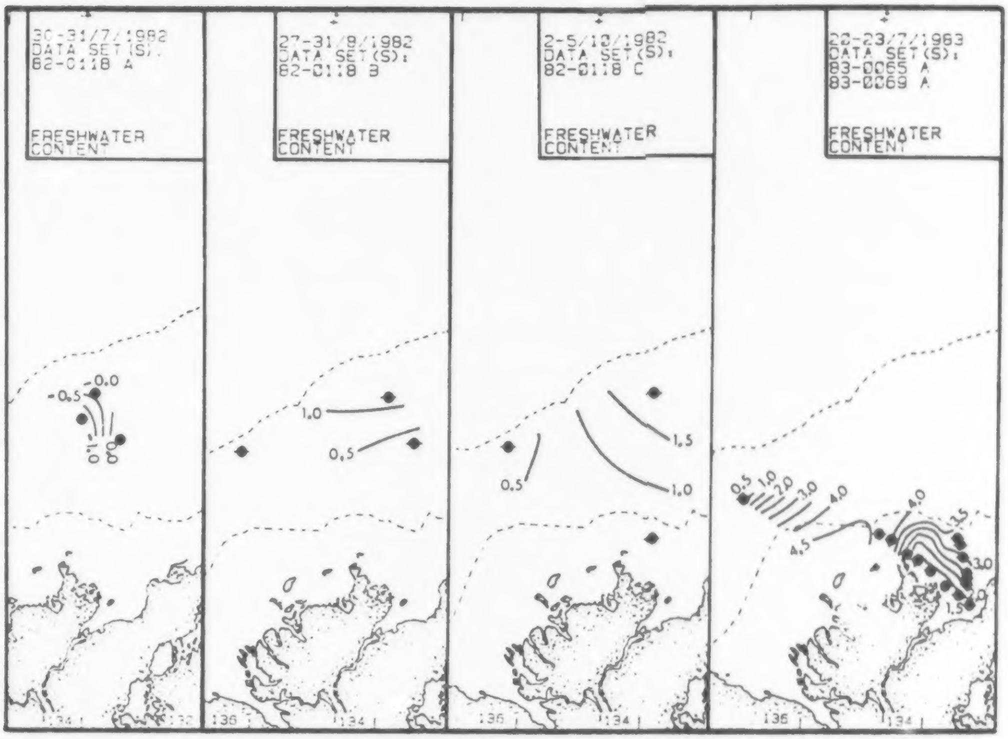

10-15/8/1980
DATA SET(S):
80-0002 AB
80-0003
80-0004
HEAT CONTENT
21-27/8/1980
DATA SET(S):
80-0002 B
80-0025 A
HEAT CONTENT
31/8-10/9/1980
DATA SET(S):
80-0002 C
80-0003 A
80-0004 A
HEAT CONTENT
19-27/9/1980
DATA SET(S):
80-0002 D
80-0003 B
80-0004 B
HEAT CONTENT
500
300
200
500
400
300
200
400
500
600
100
136
134
132

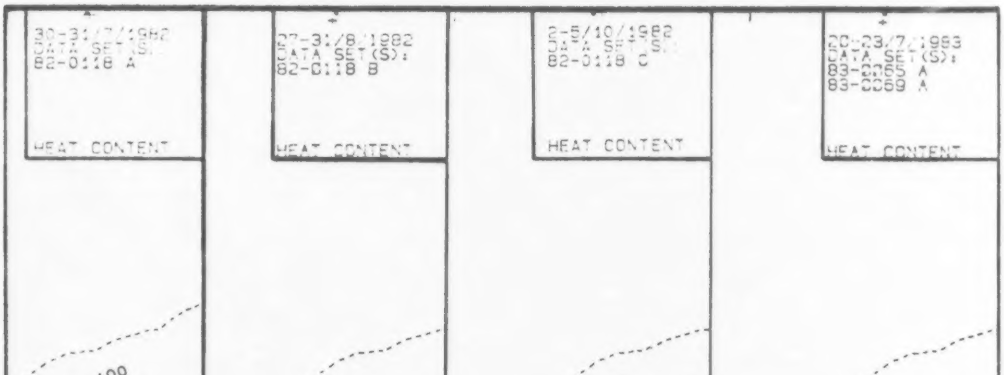

18/3-1/4/1980
DATA SET(S):
81-0001 A
FRESHWATER CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
-0.5
0.5
1.0
0.0
-1.0
-1.5
-2.0
-2.5
-3.0
200m
20m

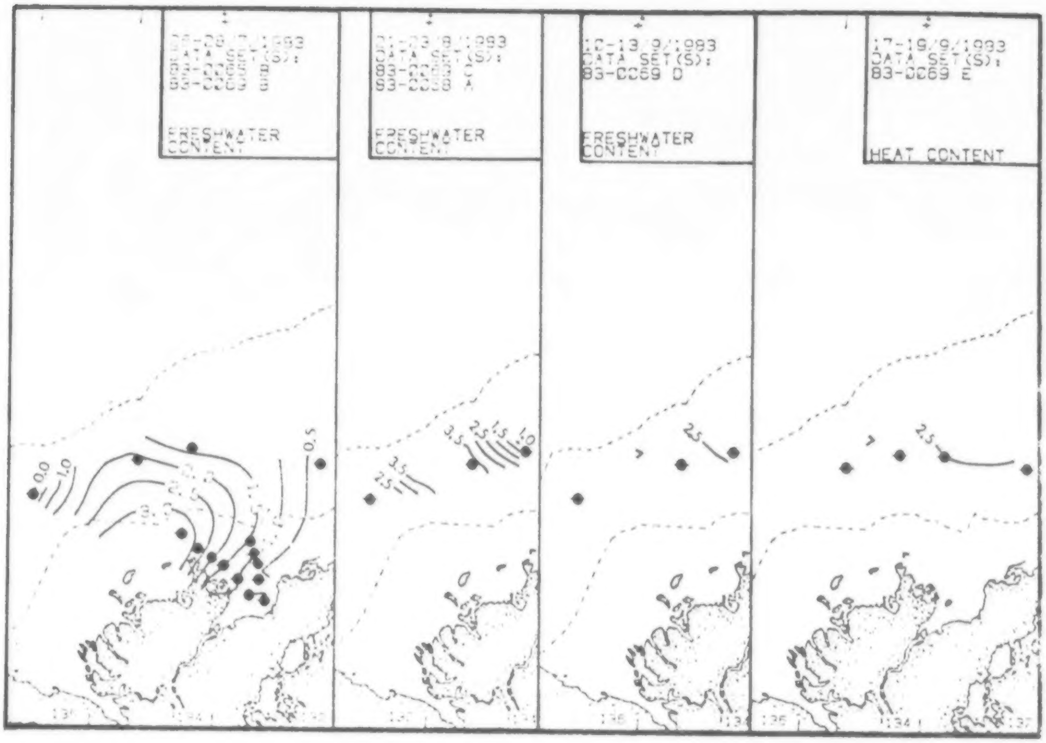

18/3-1/4/1980
DATA SET(S):
81-0001 A
HEAT CONTENT
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124
200m
20m

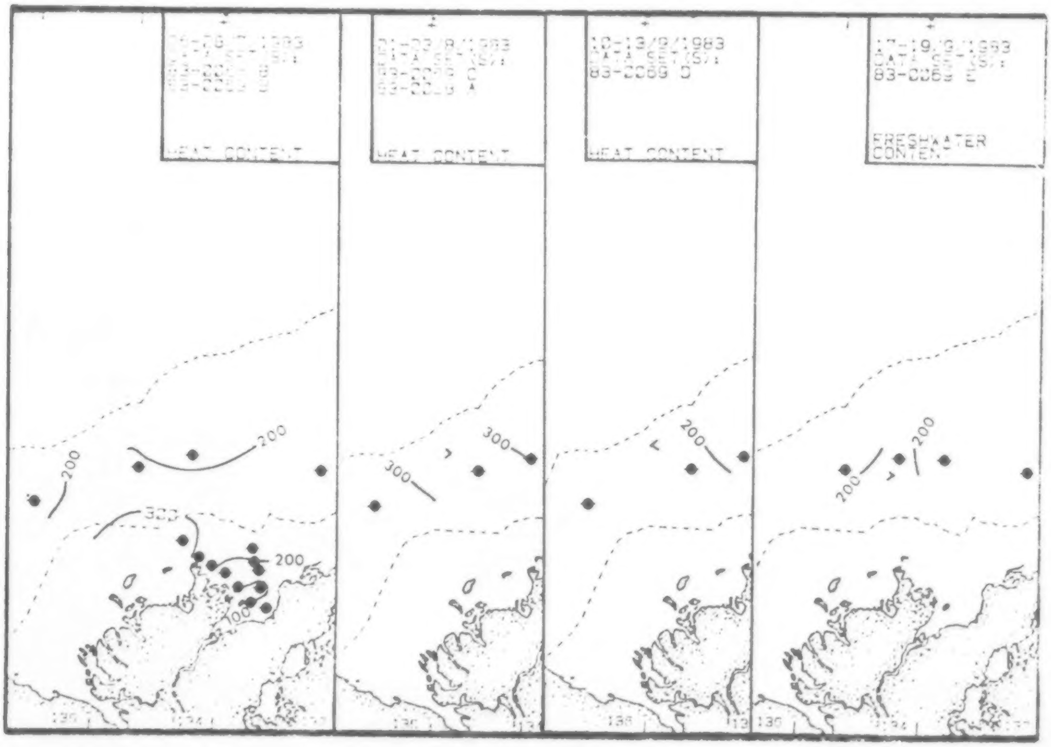

17-18/4/1980
DATA SET(S):
81-0001 B
FRESHWATER CONTENT
132
-1.5
-2.0
-2.5
26/7-6/8/1981
DATA SET(S):
81-0027 A; 81-
0023
FRESHWATER CONTENT
3.5
5.0
4.0
4.5
10-14/8/1981
DATA SET(S):
81-0027 B
81-0003 A
FRESHWATER CONTENT
6.5
6.0
5.0
4.5
4.0
3.5
24-26/8/1981
DATA SET(S):
81-0027 C
81-0022 B
FRESHWATER CONTENT
134
132

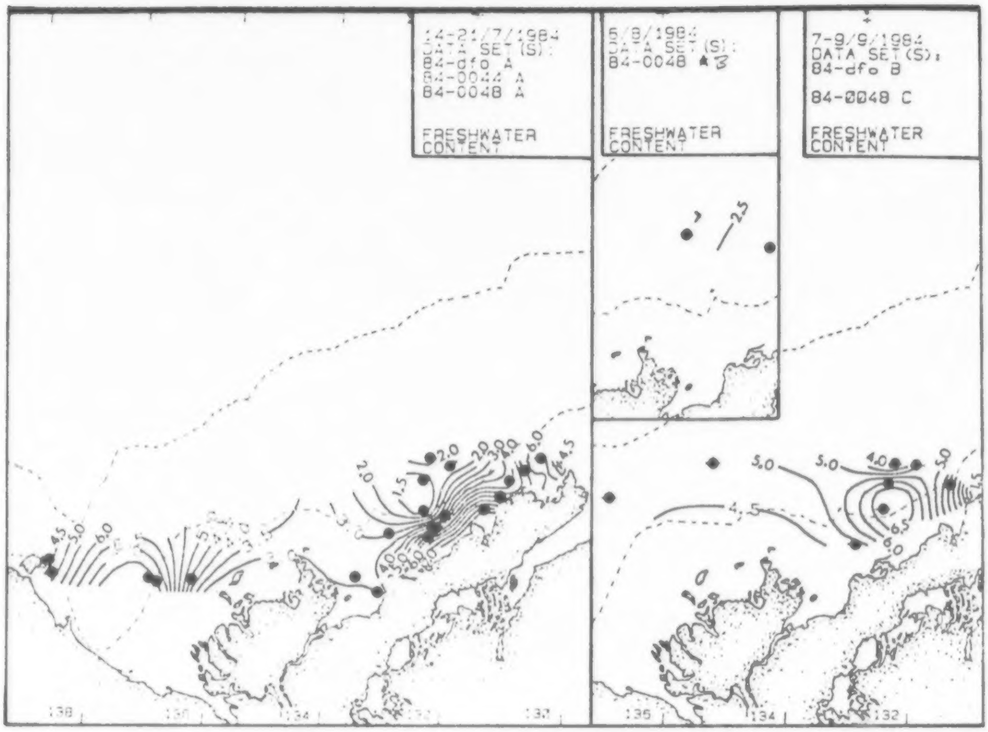

17-18/4/1980
DATA SET(S):
81-0001 B
HEAT CONTENT
132
-44
-59
26/7-6/8/1981
DATA SET(S):
81-0027 A; 81-
0023
HEAT CONTENT
300
10-14/8/1981
DATA SET(S):
81-0027 B
81-0003 A
HEAT CONTENT
500
400
300
24-26/8/1981
DATA SET(S):
81-0027 C
81-0022 B
HEAT CONTENT
100
100
200
300
134
132

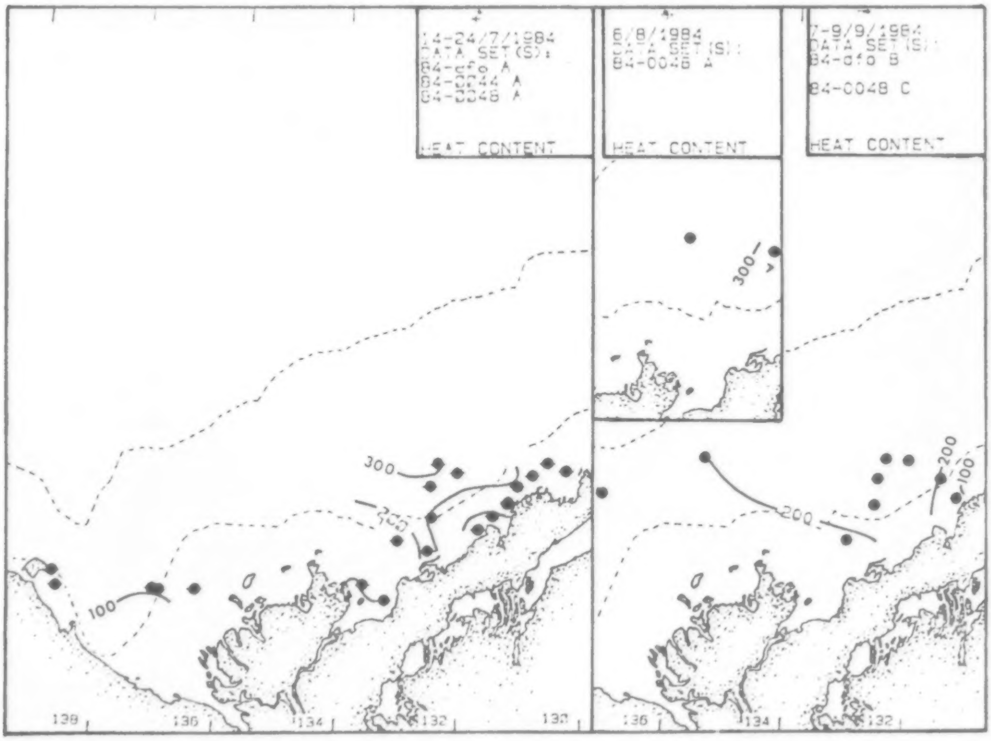

30-31/7/1982
DATA SET(S):
82-0118 A
FRESHWATER CONTENT
27-31/8/1982
DATA SET(S):
82-0118 B
FRESHWATER CONTENT
2-5/10/1982
DATA SET(S):
82-0118 C
FRESHWATER CONTENT
20-23/7/1983
DATA SET(S):
83-0065 A
83-0069 A
FRESHWATER CONTENT
-0.0
-0.5
1.0
0.5
1.0
0.5
1.5
1.0
0.5
0.5
1.0
2.0
3.0
4.0
4.5
4.0
3.5
3.0
1.5
136
134
132

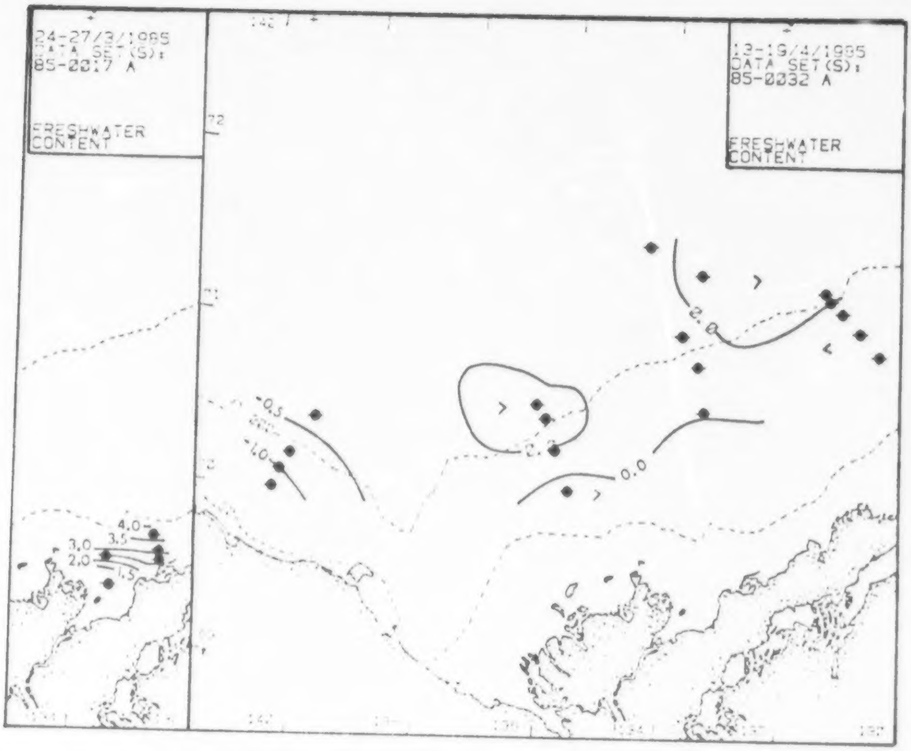

30-31/7/1982
DATA SET(S):
82-0118 A
HEAT CONTENT
27-31/8/1982
DATA SET(S):
82-0118 B
HEAT CONTENT
2-5/10/1982
DATA SET(S):
82-0118 C
HEAT CONTENT
20-23/7/1983
DATA SET(S):
83-0065 A
83-0069 A
HEAT CONTENT
600
500
400
500
400
300
400
300
200
100
100
200
300
400
400
300
136
134
132

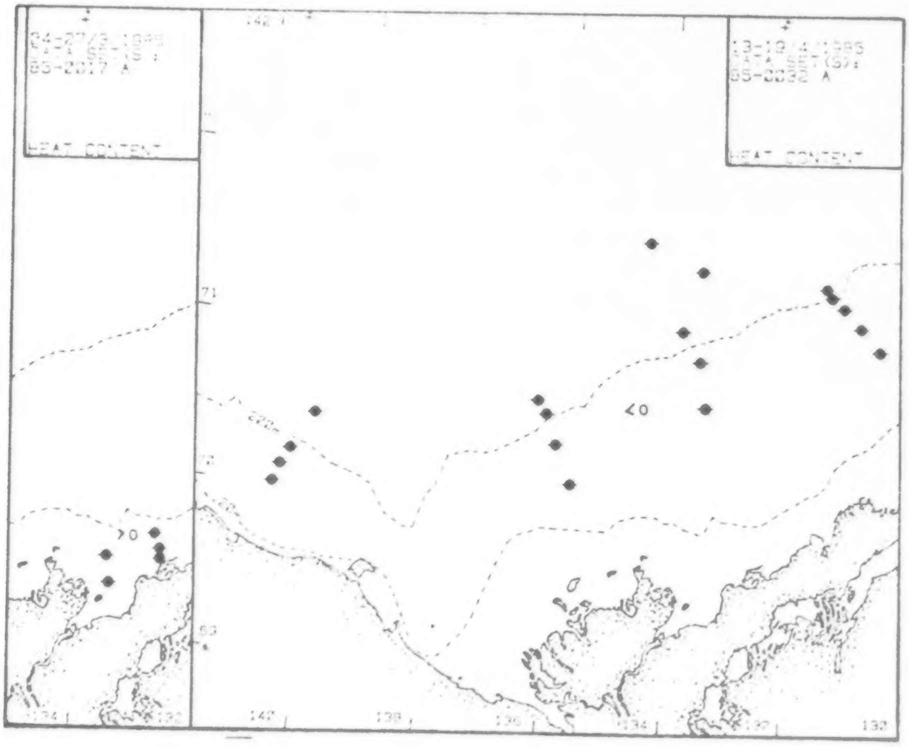

DATA SET(S):
FRESHWATER CONTENT
01-03/8/1983
DATA SET(S):
83-0069 C
83-0068 A
FRESHWATER CONTENT
10-13/9/1983
DATA SET(S):
83-0069 D
FRESHWATER CONTENT
17-19/9/1983
DATA SET(S):
83-0069 E
HEAT CONTENT
0.0
1.0
2.0
2.5
3.0
0.5
3.5
2.5
1.5
1.0
2.5
2.5
136
134

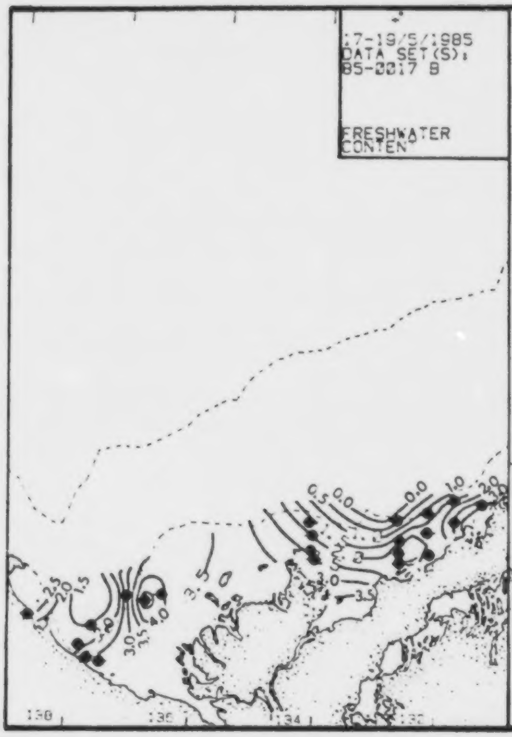

HEAT CONTENT
01-03/8/1983
DATA SET(S):
83-0069 C
83-0068 A
HEAT CONTENT
10-13/9/1983
DATA SET(S):
83-0069 D
HEAT CONTENT
17-19/9/1983
DATA SET(S):
83-0069 E
FRESHWATER CONTENT
200
200
300
200
100
300
300
200
200
200
136
134

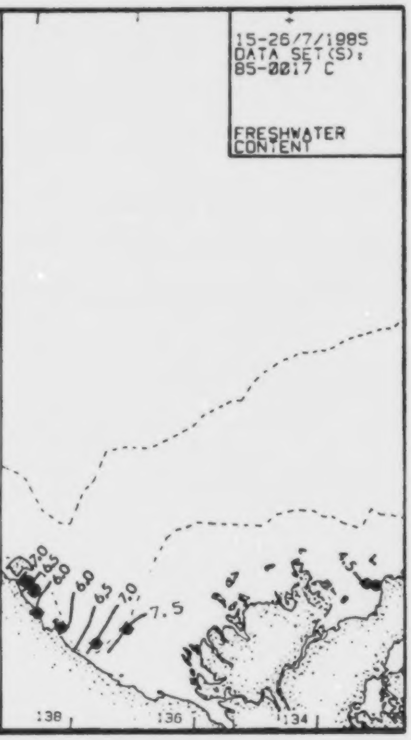

14-21/7/1984
DATA SET(S):
84-dfo A
84-0044 A
84-0048 A
FRESHWATER CONTENT
5/8/1984
DATA SET(S):
84-0048 A B
FRESHWATER CONTENT
7-9/9/1984
DATA SET(S):
84-dfo B
84-0048 C
FRESHWATER CONTENT
2.5
4.5
5.0
6.0
2.0
1.5
3.0
4.0
6.5
138
136
134
132
130

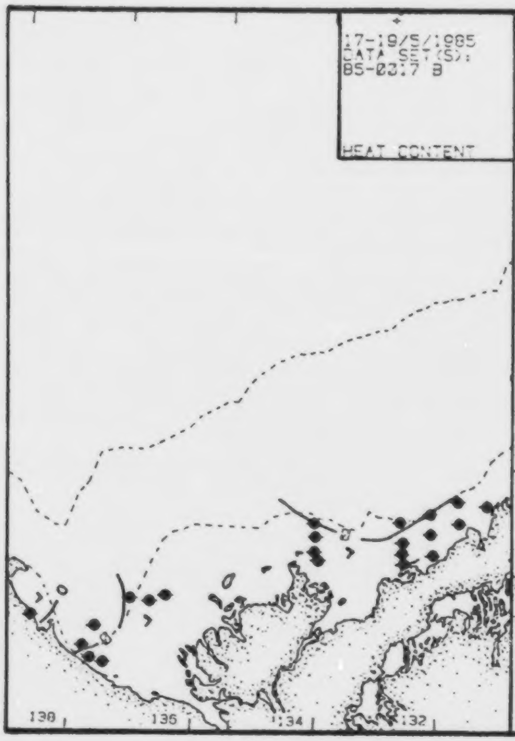

14-24/7/1984
DATA SET(S):
84-dfo A
84-0044 A
84-0048 A
HEAT CONTENT
6/8/1984
DATA SET(S):
84-0048 A
HEAT CONTENT
7-9/9/1984
DATA SET(S):
84-dfo B
84-0048 C
HEAT CONTENT
300
200
100
138
136
134
132
130

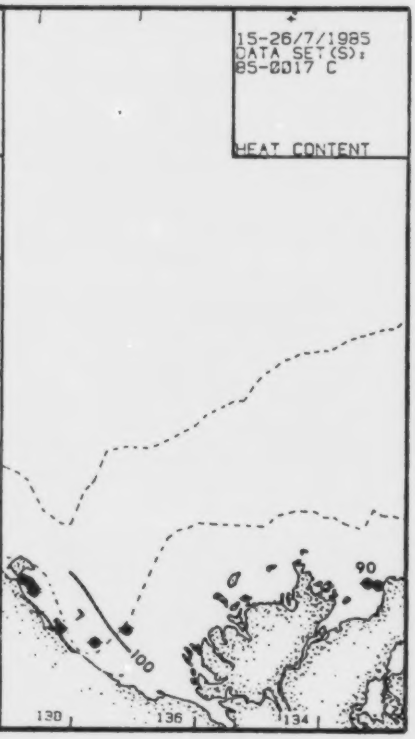

24-27/3/1985
DATA SET(S):
85-0017 A
FRESHWATER CONTENT
13-19/4/1985
DATA SET(S):
85-0032 A
FRESHWATER CONTENT
142
72
71
70
4.0
3.5
3.0
2.0
1.5
-0.5
-1.0
200
2.0
0.0
>
<
140
138
136
134
132
130

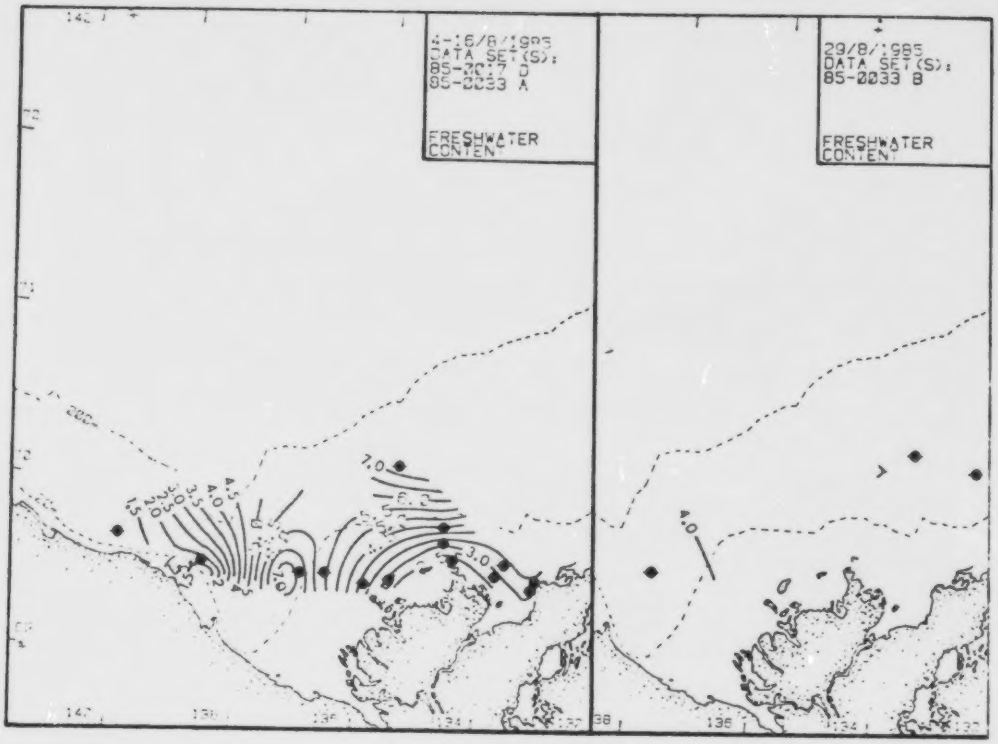

24-27/3/1985
DATA SET(S):
85-0017 A
HEAT CONTENT
13-19/4/1985
DATA SET(S):
85-0032 A
HEAT CONTENT
142
71
70
69
200
>0
<0
134
132
140
138
136
134
132
130

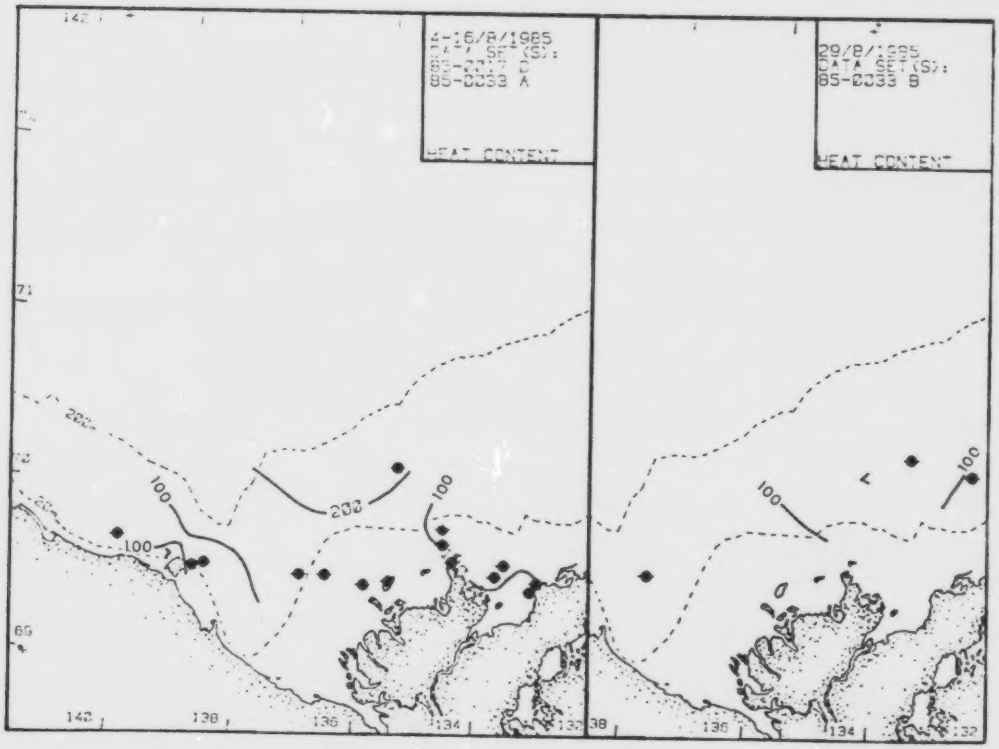

17-19/5/1985
DATA SET(S):
85-0017 B
FRESHWATER
CONTENT
0.5
0.0
0.0
1.0
2.0
2.5
2.0
1.5
3.0
3.5
4.0
3.5
3.0
3.5
138
136
134
132

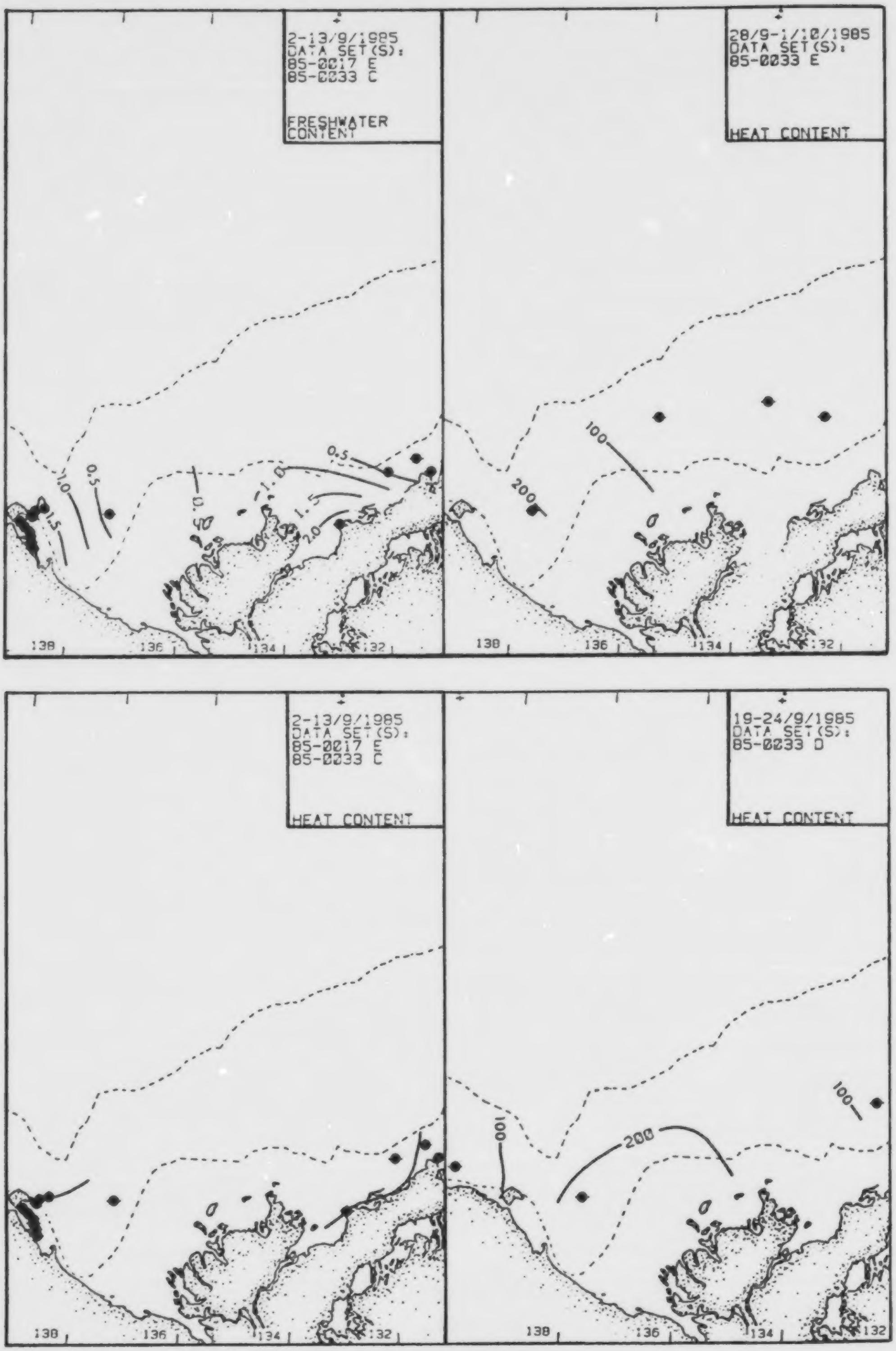

15-26/7/1985
DATA SET(S):
85-0017 C
FRESHWATER
CONTENT
7.0
6.5
6.0
6.0
6.5
7.0
7.5
138
136
134

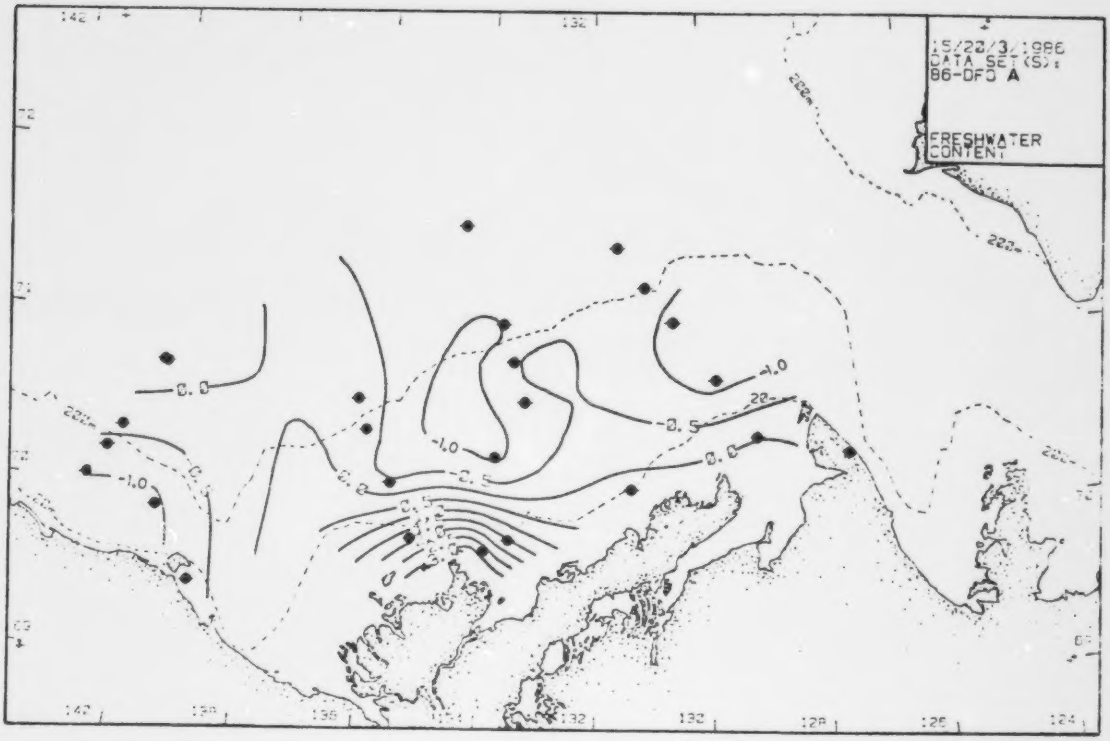

17-19/5/1985
DATA SET(S):
85-0017 B
HEAT CONTENT
0
138
136
134
132

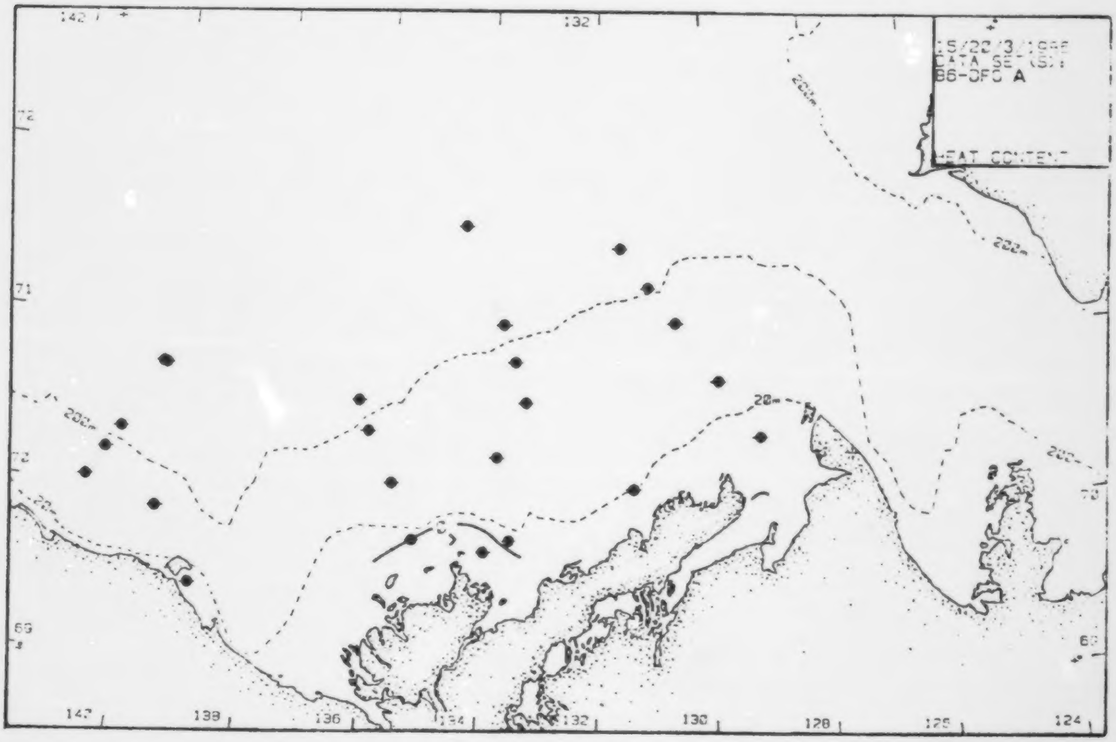

15-26/7/1985
DATA SET(S):
85-0017 C
HEAT CONTENT
90
100
138
136
134

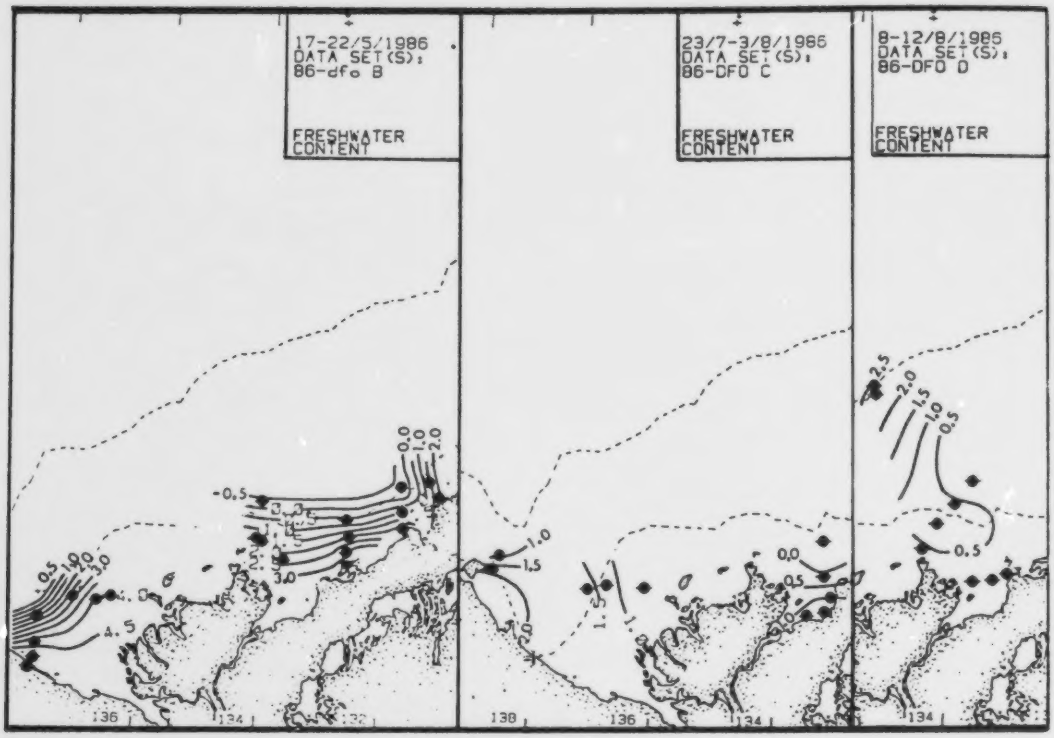

4-16/8/1985
DATA SET(S):
85-0017 D
85-0033 A
FRESHWATER CONTENT
29/8/1985
DATA SET(S):
85-0033 B
FRESHWATER CONTENT
7.0
6.0
3.0
4.5
4.0
3.5
2.0
1.5
4.0
200
20
142
140
138
136
134
132
72
71
70
69

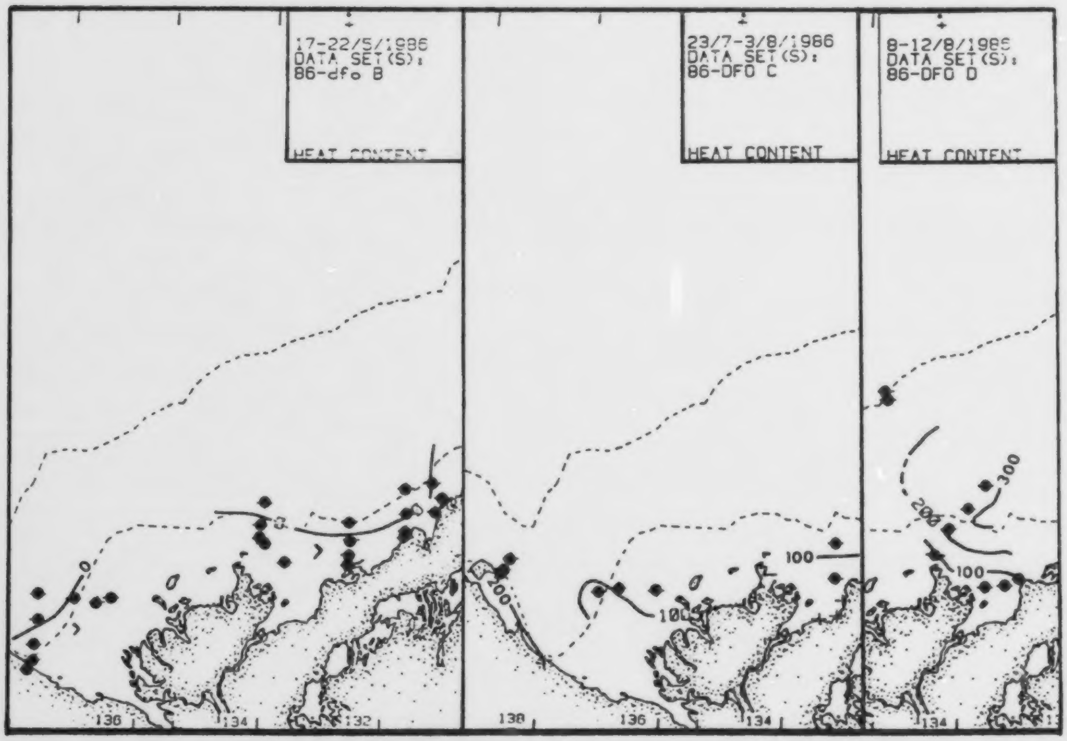

4-16/8/1985
DATA SET(S):
85-0017 D
85-0033 A
HEAT CONTENT
29/8/1985
DATA SET(S):
85-0033 B
HEAT CONTENT
100
200
100
100
100
100
200
20
142
140
138
136
134
132
71
70
69


2-13/9/1985
DATA SET(S):
85-0017 E
85-0033 C
FRESHWATER CONTENT
0.5
1.0
1.5
2.0
28/9-1/10/1985
DATA SET(S):
85-0033 E
HEAT CONTENT
100
200
2-13/9/1985
DATA SET(S):
85-0017 E
85-0033 C
HEAT CONTENT
19-24/9/1985
DATA SET(S):
85-0033 D
HEAT CONTENT
100
200
100
138
136
134
132

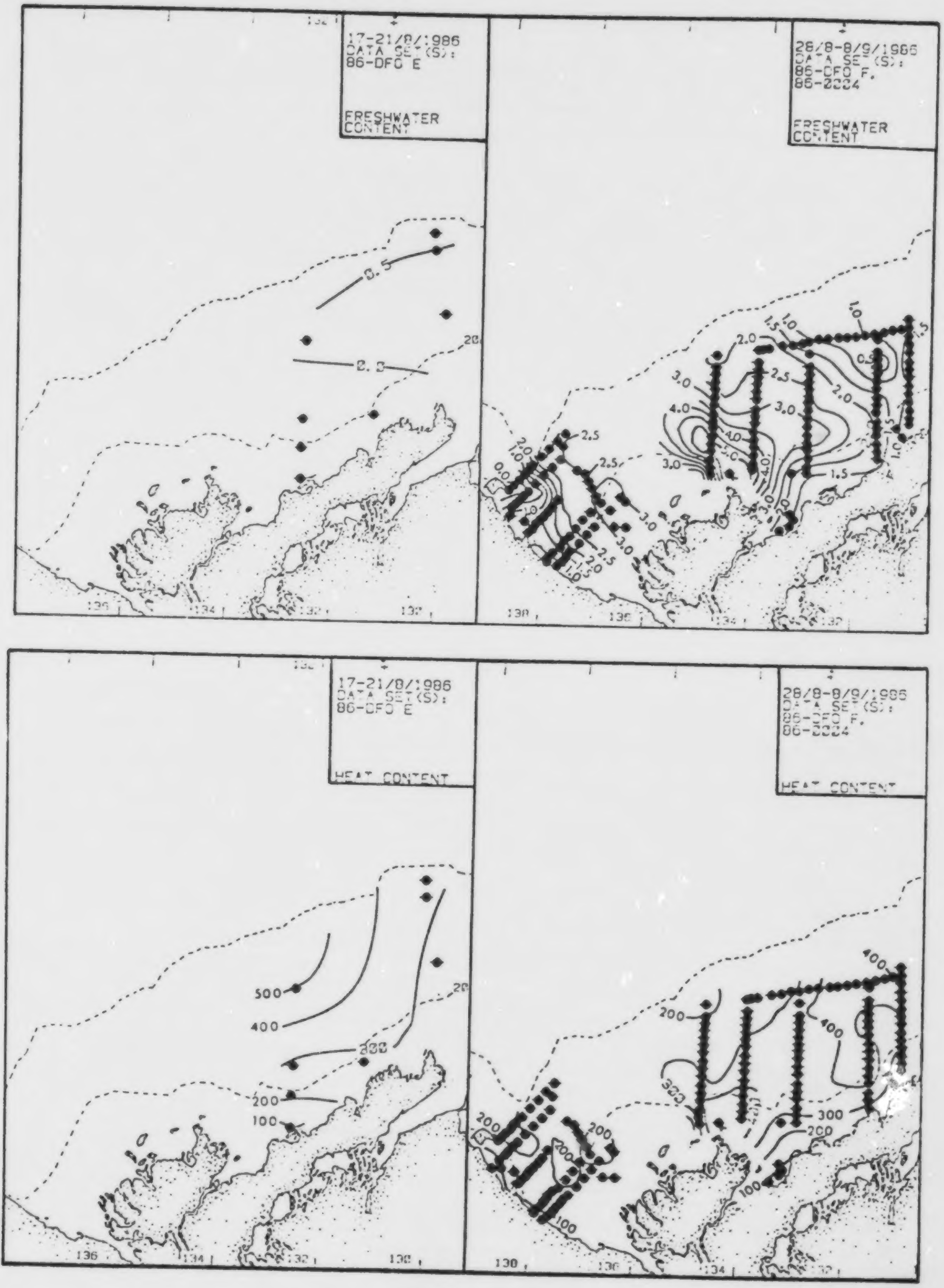

15/20/3/1986
DATA SET(S):
86-DFO A
FRESHWATER CONTENT
0.0
-1.0
-0.5
-1.0
-0.5
0.0
-1.0
0.0
200m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124

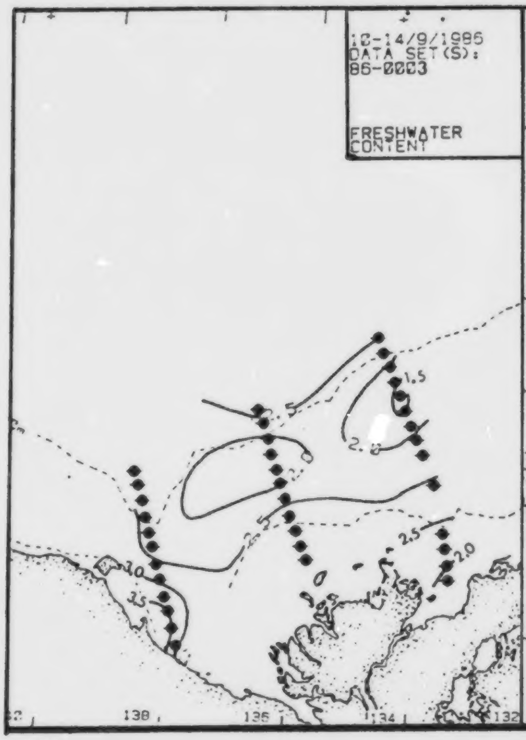

15/20/3/1986
DATA SET(S):
86-DFO A
HEAT CONTENT
200m
20m
142
132
72
71
70
69
140
138
136
134
132
130
128
126
124

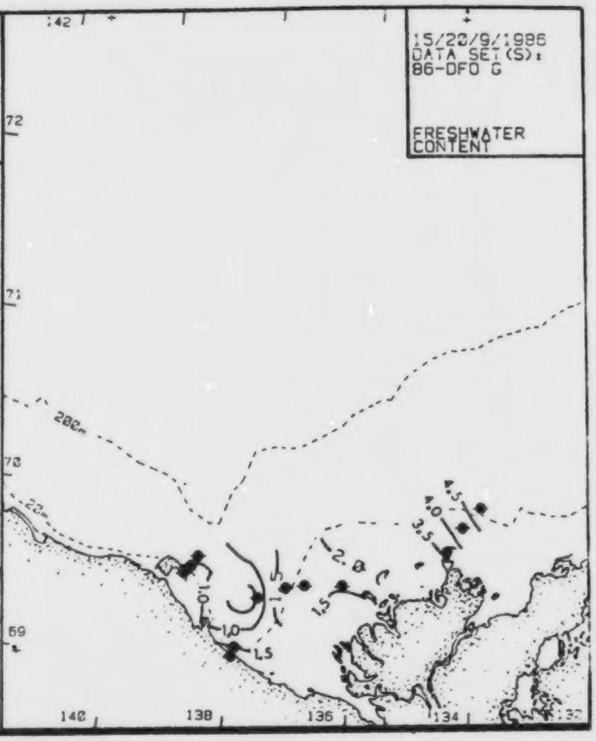

17-22/5/1986
DATA SET(S):
86-dfo B
FRESHWATER CONTENT
23/7-3/8/1986
DATA SET(S):
86-DFO C
FRESHWATER CONTENT
8-12/8/1986
DATA SET(S):
86-DFO D
FRESHWATER CONTENT
-0.5
0.0
1.0
2.0
3.0
4.5
1.5
0.5
2.5
136
134
132
138

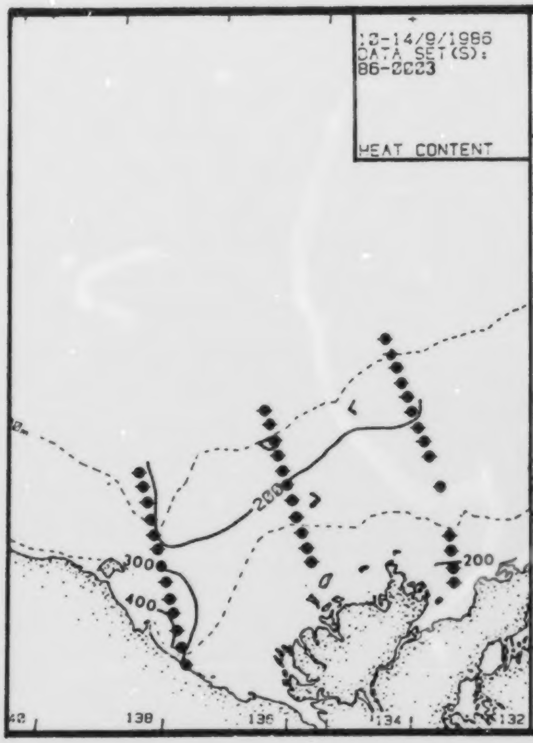

17-22/5/1986
DATA SET(S):
86-dfo B
HEAT CONTENT
23/7-3/8/1986
DATA SET(S):
86-DFO C
HEAT CONTENT
8-12/8/1986
DATA SET(S):
86-DFO D
HEAT CONTENT
0
100
200
300
136
134
132
138

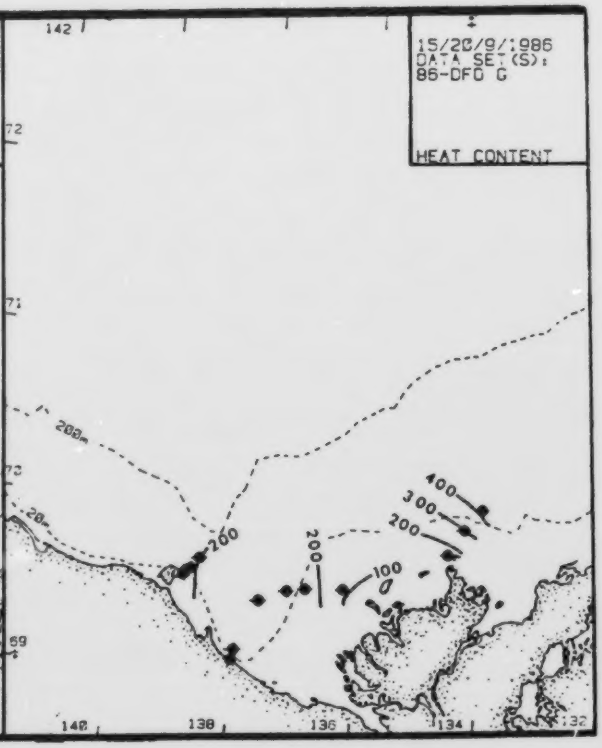
2 192

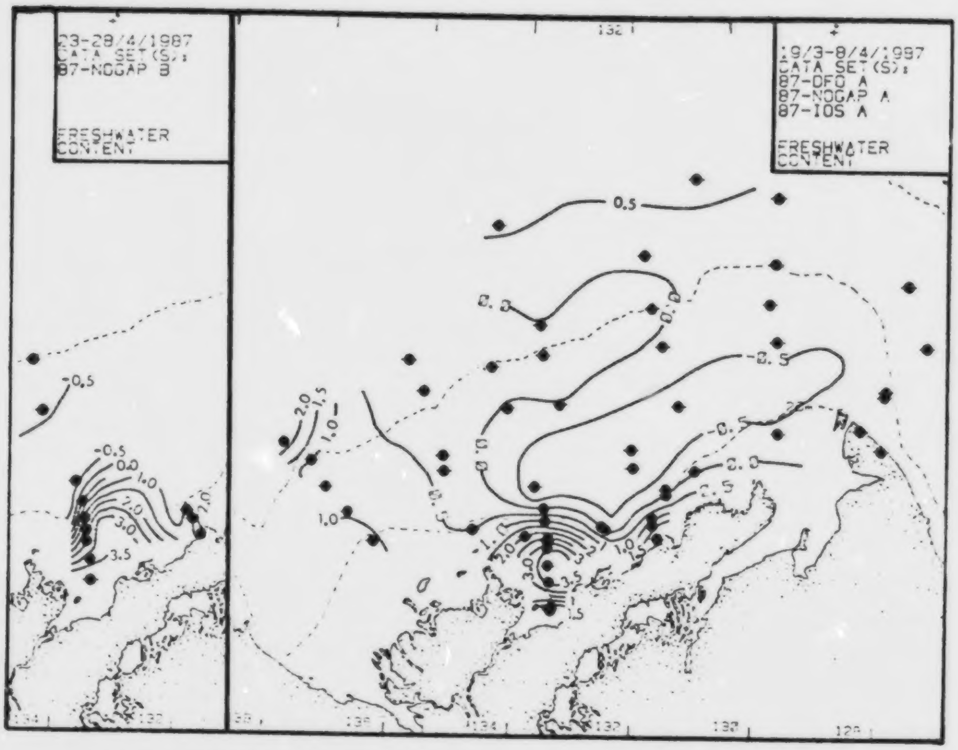

17-21/8/1986
DATA SET(S):
86-DFO E
FRESHWATER
CONTENT
28/8-8/9/1986
DATA SET(S):
86-DFO F,
86-2004
FRESHWATER
CONTENT
17-21/8/1986
DATA SET(S):
86-DFO E
HEAT CONTENT
28/8-8/9/1986
DATA SET(S):
86-DFO F,
86-2004
HEAT CONTENT
0.5
0.0
20
1.0
1.5
2.0
2.5
3.0
4.0
0.5
500
400
300
200
100
138
136
134
132
130

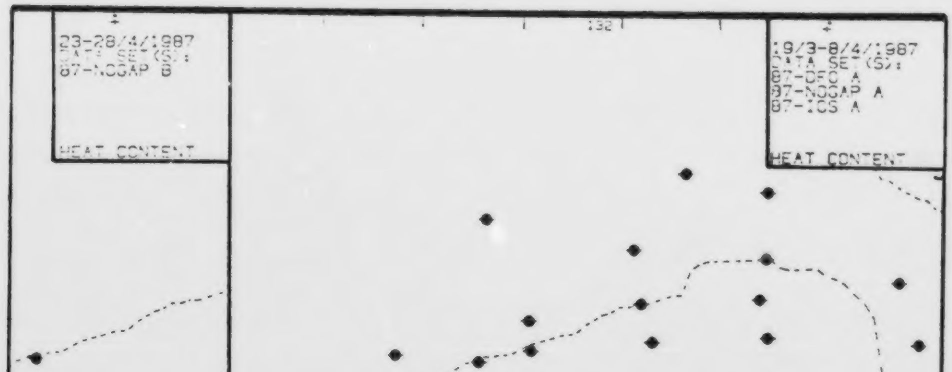

10-14/9/1986
DATA SET(S):
86-0003
FRESHWATER CONTENT
1.5
2.5
2.0
2.5
2.5
2.0
3.0
3.5
138
136
134
132

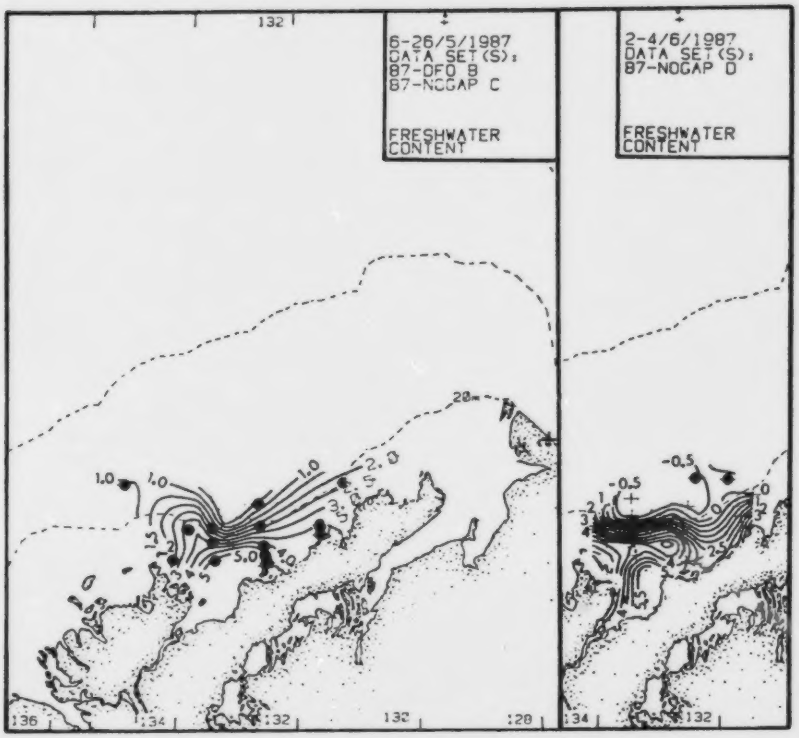

15/20/9/1986
DATA SET(S):
86-DFO G
FRESHWATER CONTENT
142
72
71
70
69
200m
20m
4.5
4.0
3.5
2.0
1.5
1.0
1.5
140
138
136
134
132

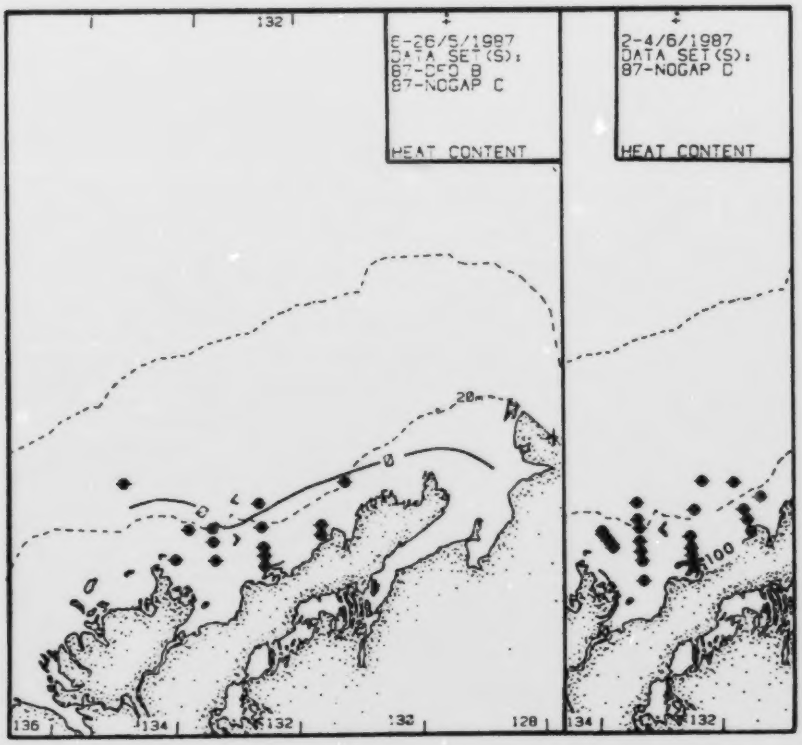

10-14/9/1986
DATA SET(S):
86-0003
HEAT CONTENT
200
200
300
400
138
136
134
132

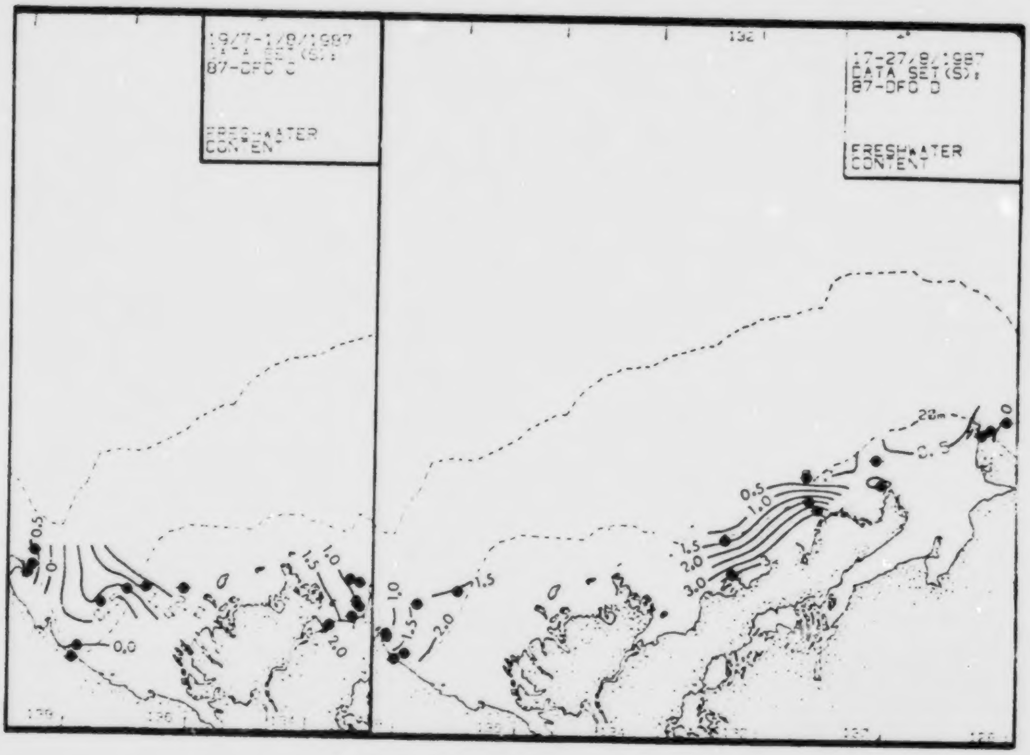

15/20/9/1986
DATA SET(S):
86-DFO G
HEAT CONTENT
142
72
71
70
69
200m
20m
400
300
200
200
200
100
140
138
136
134
132

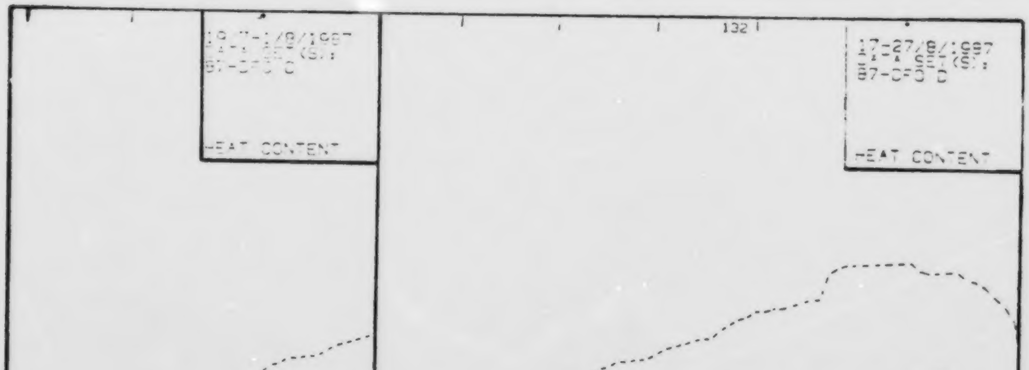

23-28/4/1987
DATA SET(S):
87-NOGAP B
FRESHWATER CONTENT
19/3-8/4/1987
DATA SET(S):
87-DFO A
87-NOGAP A
87-IOS A
FRESHWATER CONTENT
0.5
0.0
-0.5
1.0
1.5
2.0
3.0
3.5
22m
132
134
136
130
128


23-28/4/1987
DATA SET(S):
87-NOGAP B
HEAT CONTENT
19/3-8/4/1987
DATA SET(S):
87-DFO A
87-NOGAP A
87-IOS A
HEAT CONTENT
22m
132
134
136
130
128


132
6-26/5/1987
DATA SET(S):
87-DFO B
87-NOGAP C
FRESHWATER CONTENT
2-4/6/1987
DATA SET(S):
87-NOGAP D
FRESHWATER CONTENT
20m
1.0
1.0
1.0
2.0
5.0
4.0
-0.5
-0.5
0
136
134
132
130
128
134
132

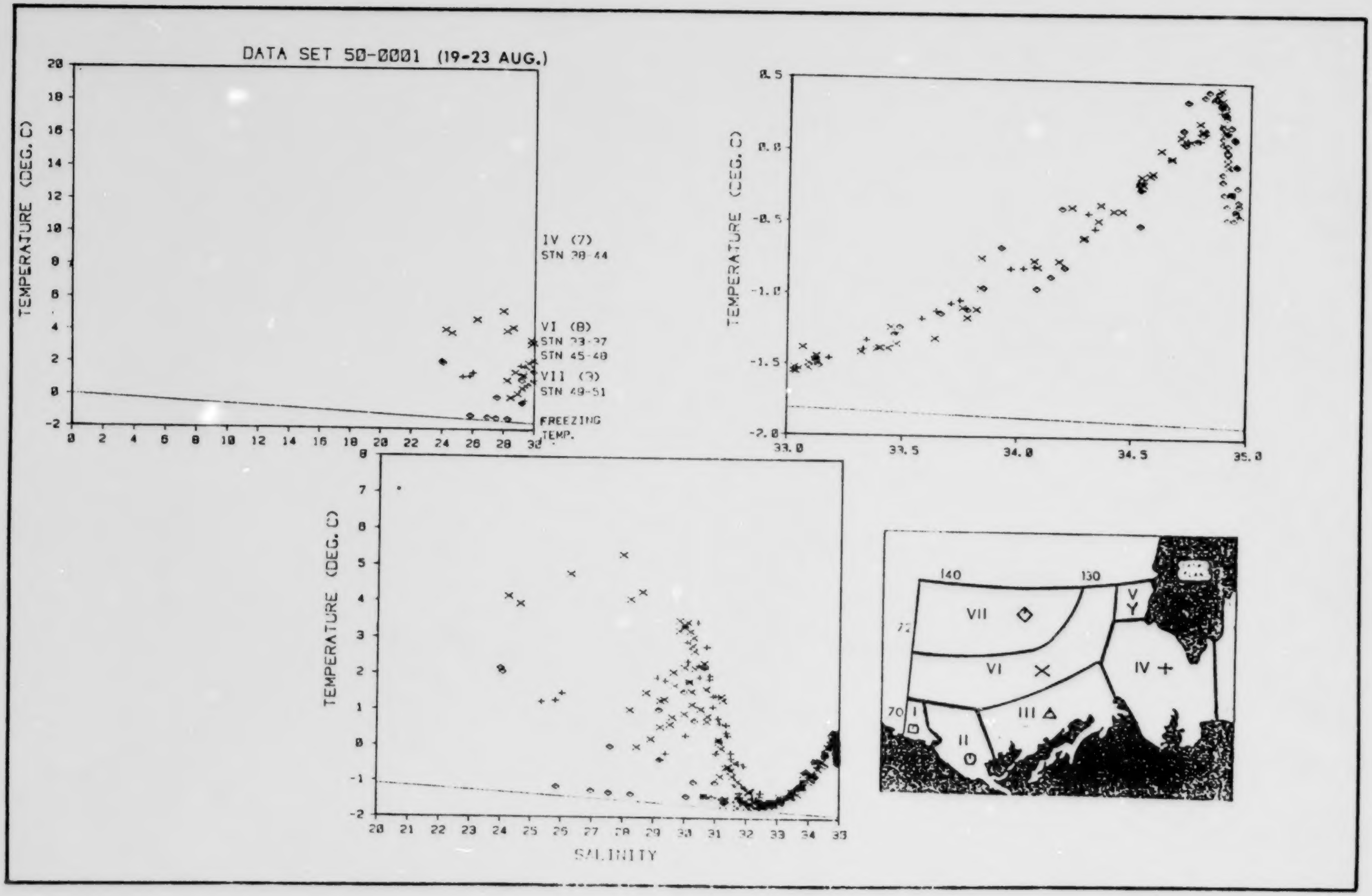

132
6-26/5/1987
DATA SET(S):
87-DFO B
87-NOGAP C
HEAT CONTENT
2-4/6/1987
DATA SET(S):
87-NOGAP C
HEAT CONTENT
20m
0
0
100
136
134
132
130
128
134
132


19/7-1/8/1987
DATA SET(S):
87-DFO C
FRESHWATER
CONTENT
17-27/8/1987
DATA SET(S):
87-DFO D
FRESHWATER
CONTENT
132
20m
0
0.5
0
0.0
1.0
1.5
2.0
3.0
138
136
134
132
130
128

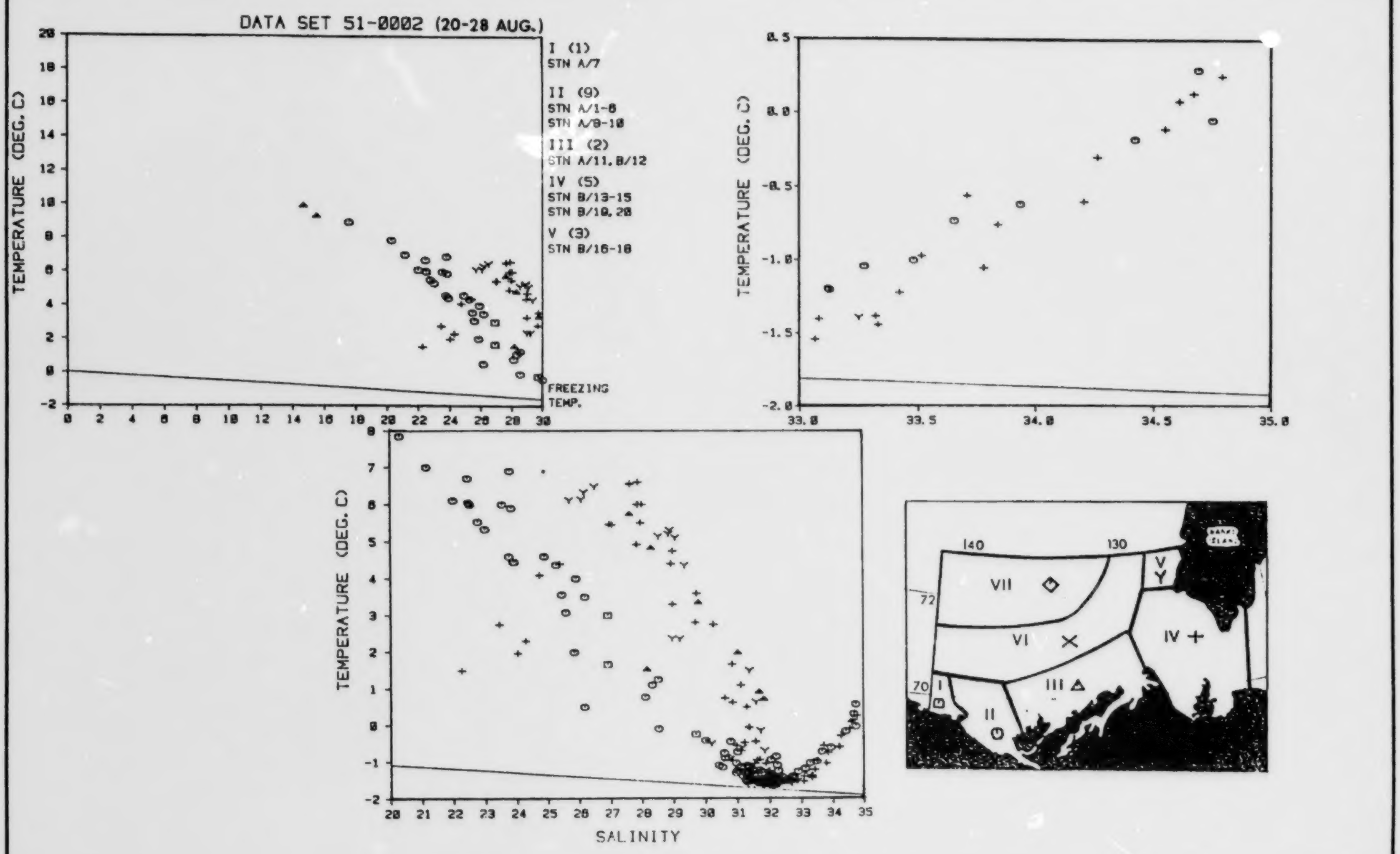

19/7-1/8/1987
DATA SET(S):
87-DFO C
HEAT CONTENT
17-27/8/1987
DATA SET(S):
87-DFO D
HEAT CONTENT
132
200
300
200
200
300
400
500
600
400
800
700
600
500
138
136
134
132
130
128

# APPENDIX D

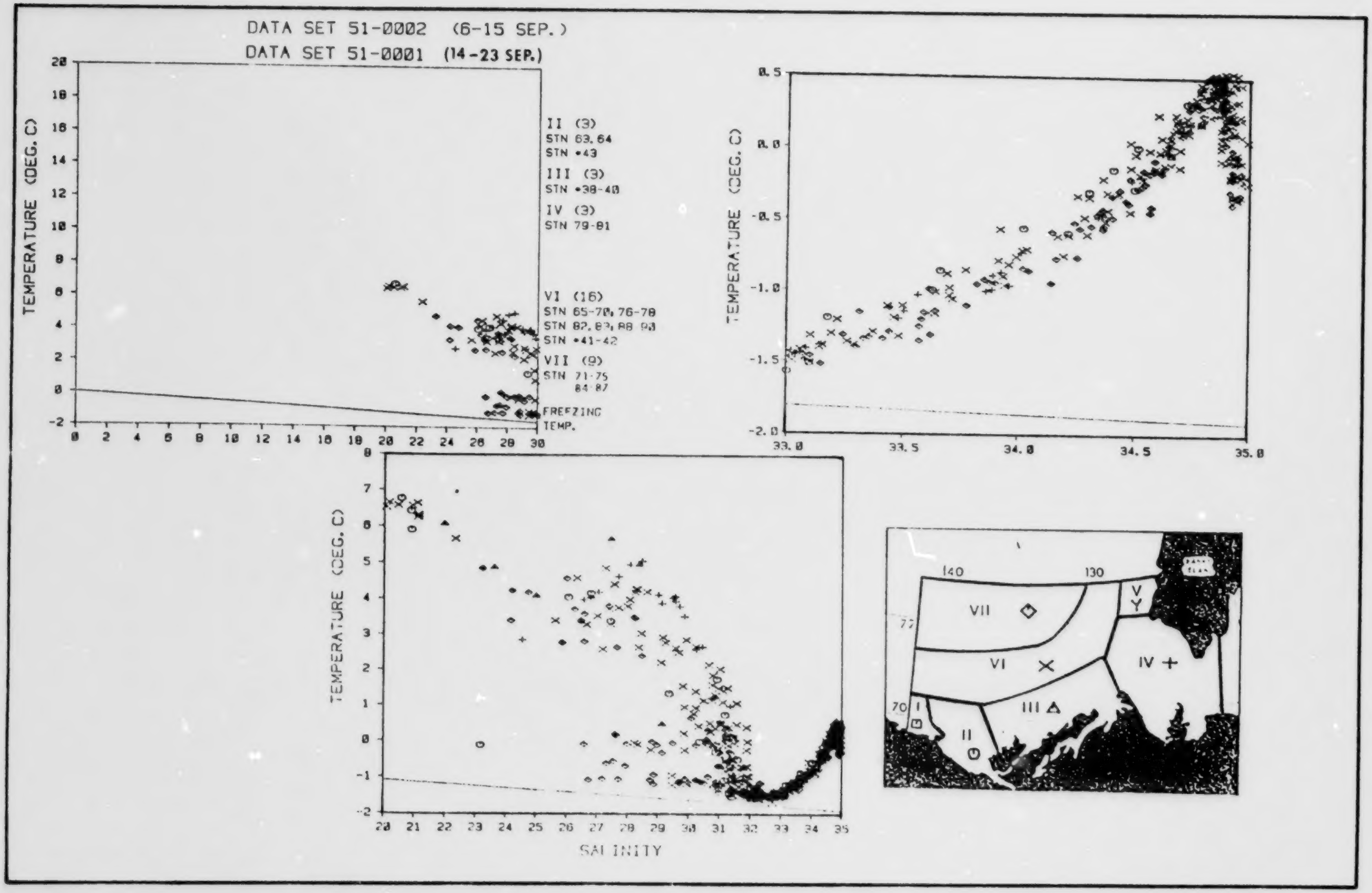
# TEMPERATURE-SALINITY DIAGRAMS



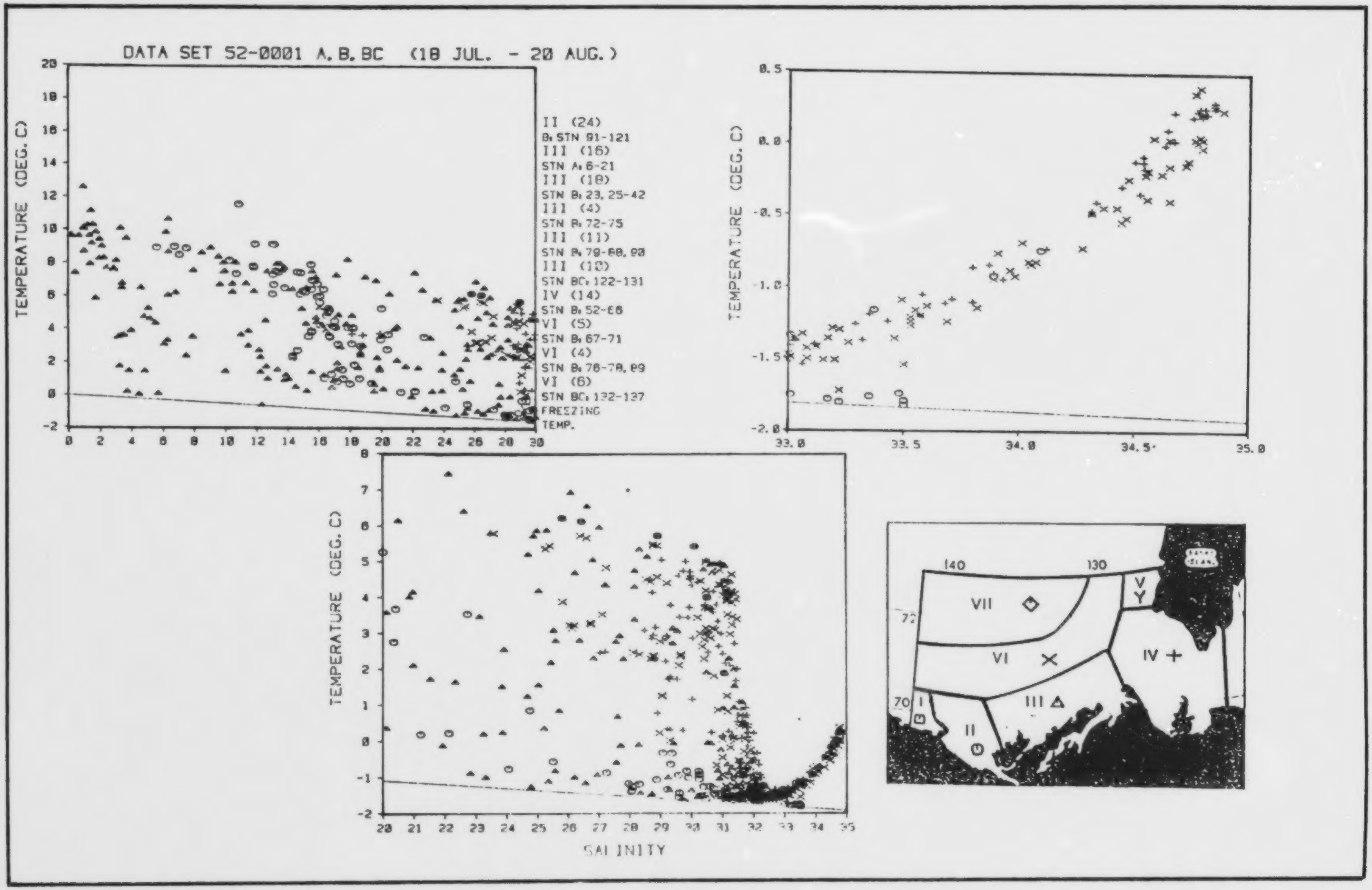
DATA SET 50-0001 (19-23 AUG.)

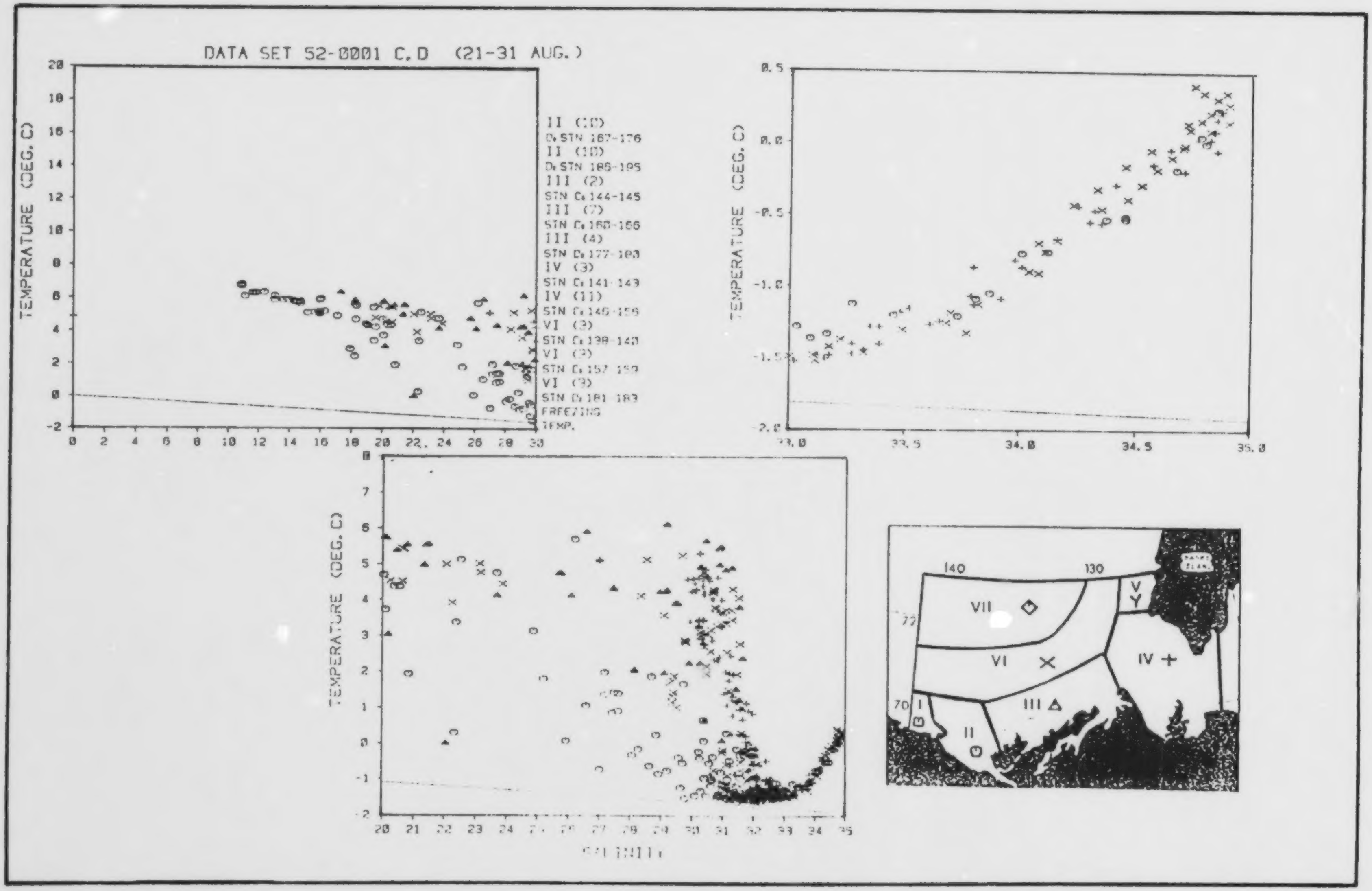


DATA SET 51-0002 (20-28 AUG.)

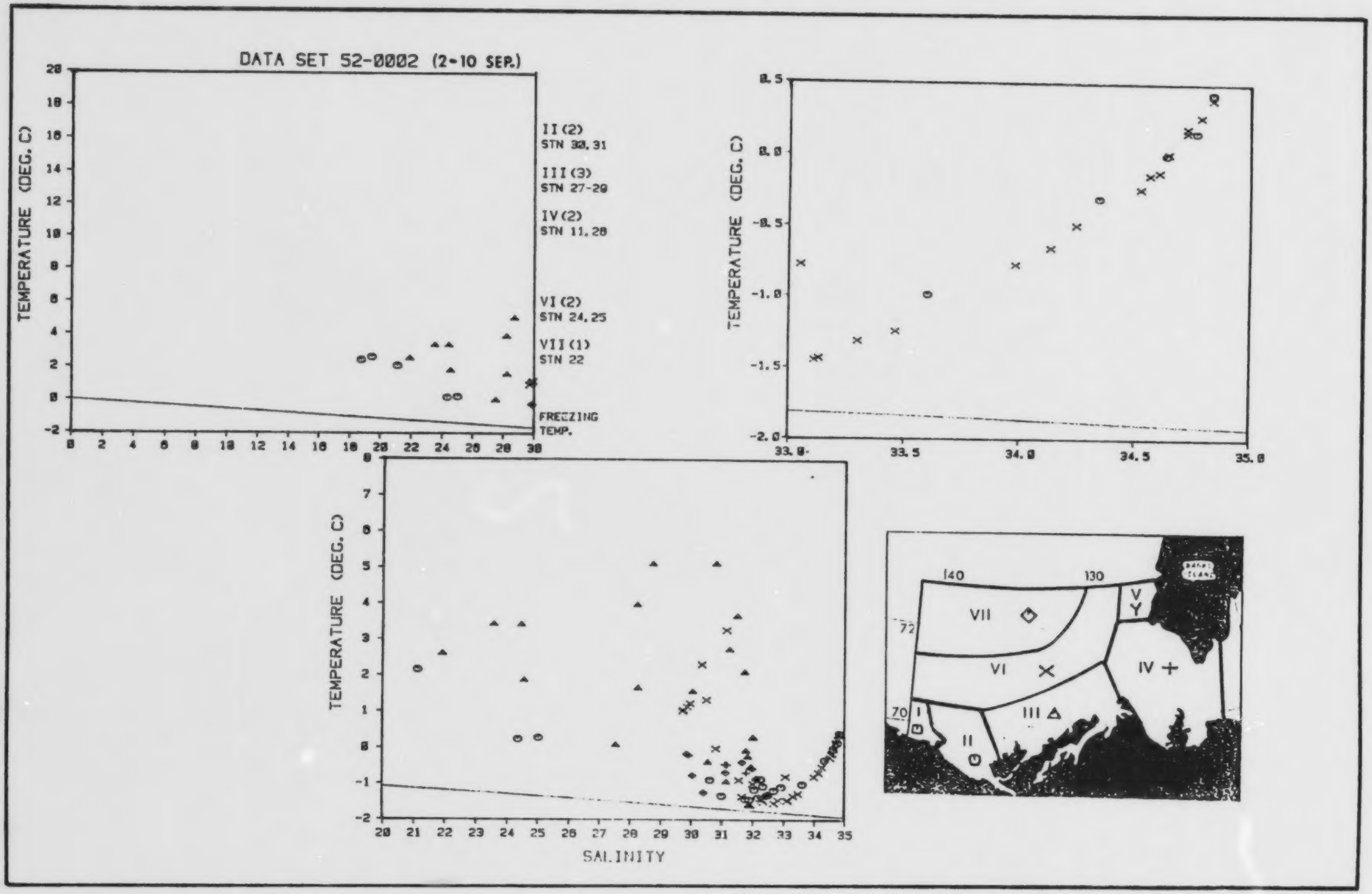


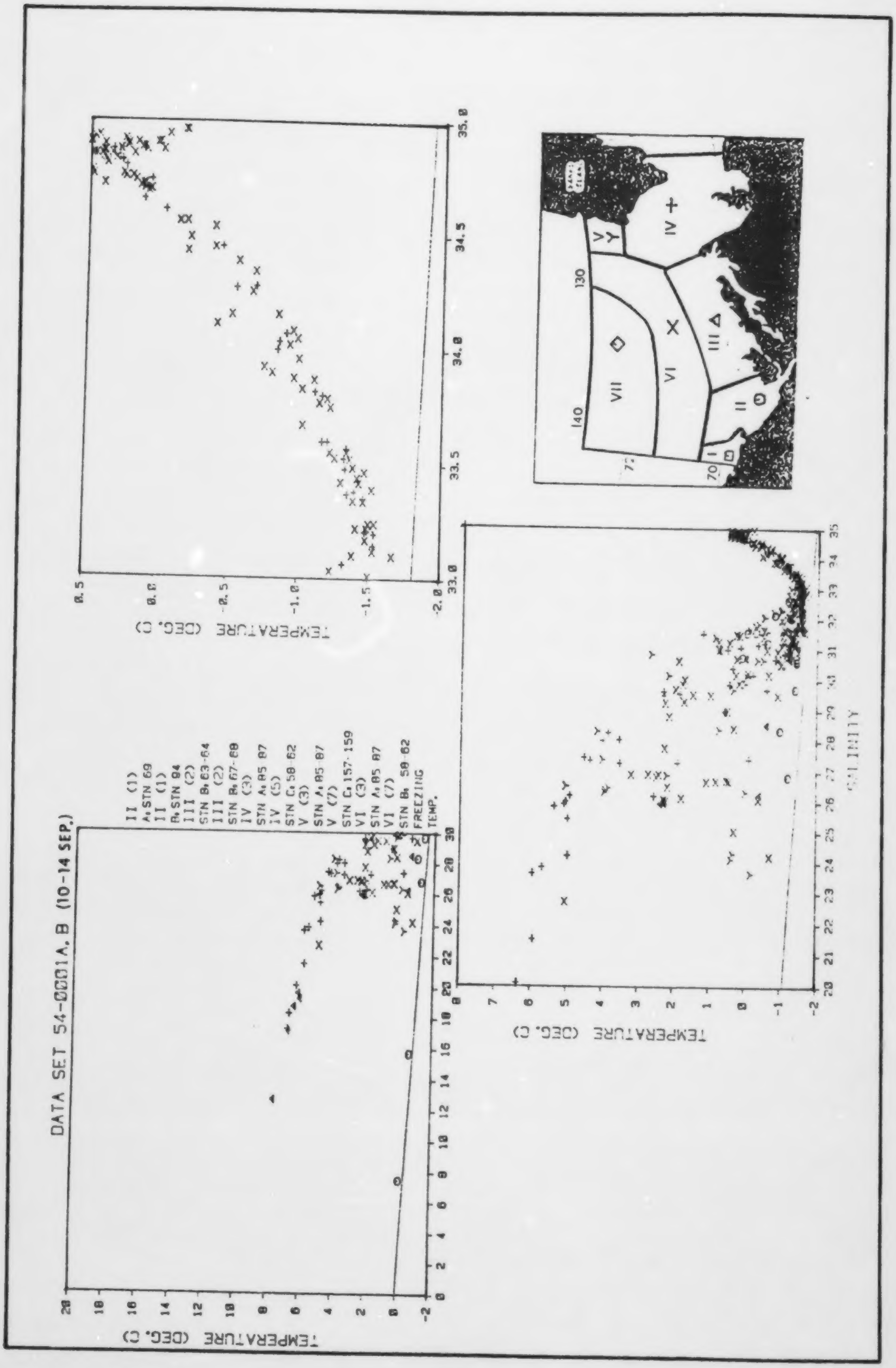
DATA SET 51-0002 (6-15 SEP.)
DATA SET 51-0001 (14-23 SEP.)


DATA SET 52-0001 A.B.BC (18 JUL. - 20 AUG.)

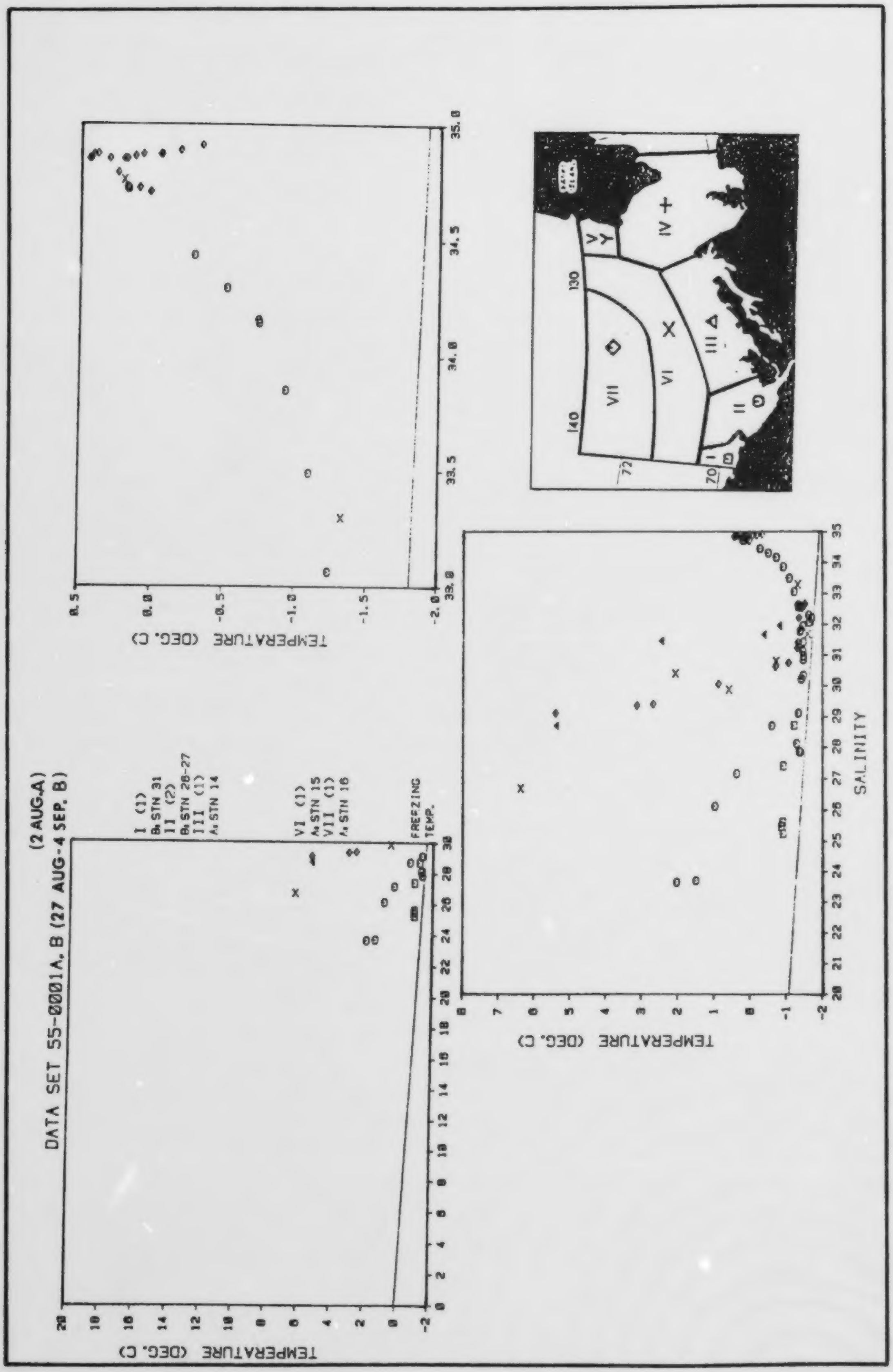


DATA SET 52-0001 C,D (21-31 AUG.)

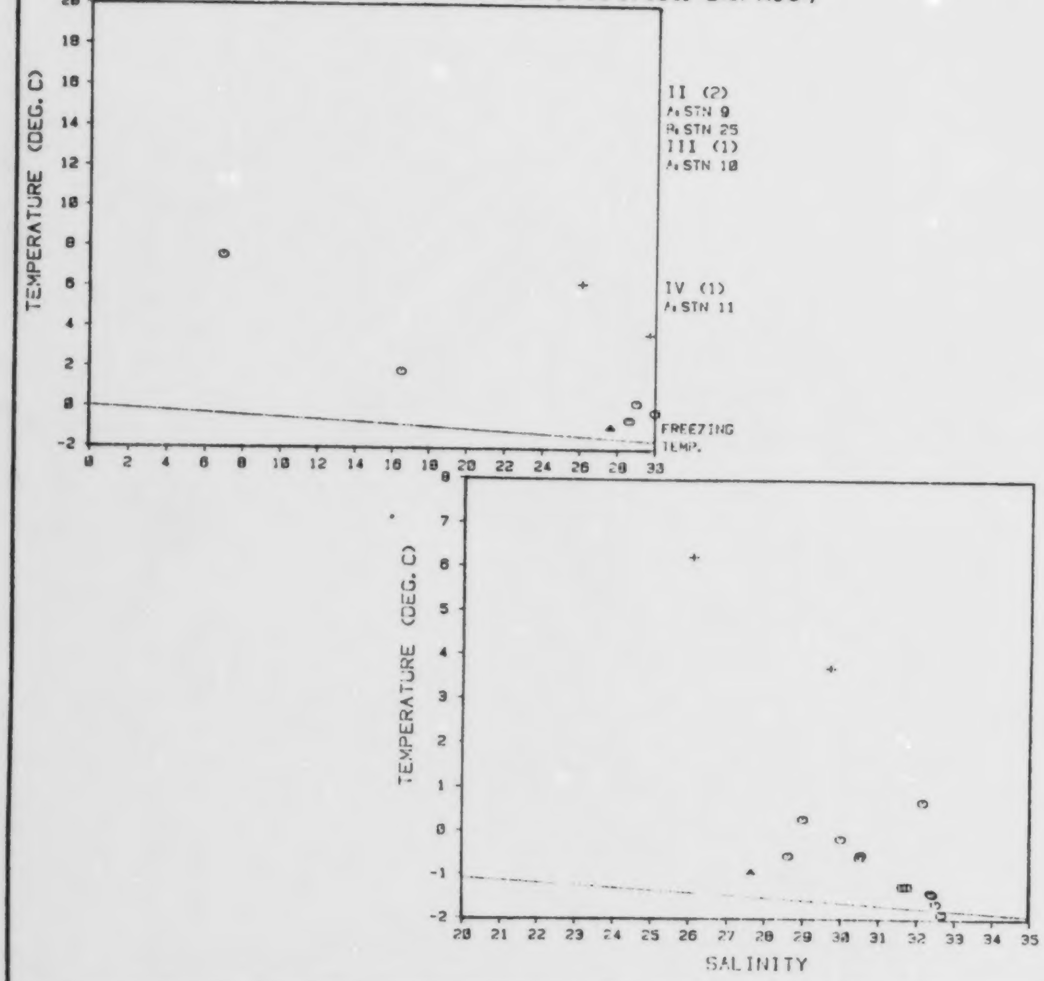

DATA SET 52-0002 (2-10 SEP.)
TEMPERATURE (DEG. C)
20
18
16
14
12
10
8
6
4
2
0
-2
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
II (2)
STN 30, 31
III (3)
STN 27-29
IV (2)
STN 11, 20
VI (2)
STN 24, 25
VII (1)
STN 22
FREEZING
TEMP.
TEMPERATURE (DEG. C)
0.5
0.0
-0.5
-1.0
-1.5
-2.0
33.0
33.5
34.0
34.5
35.0
TEMPERATURE (DEG. C)
8
7
6
5
4
3
2
1
0
-1
-2
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
SALINITY
140
130
72
70
VII
VI
V
IV
III
II
I

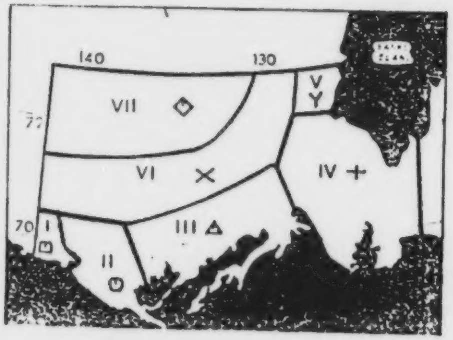

DATA SET 54-0001A, B (10-14 SEP.)

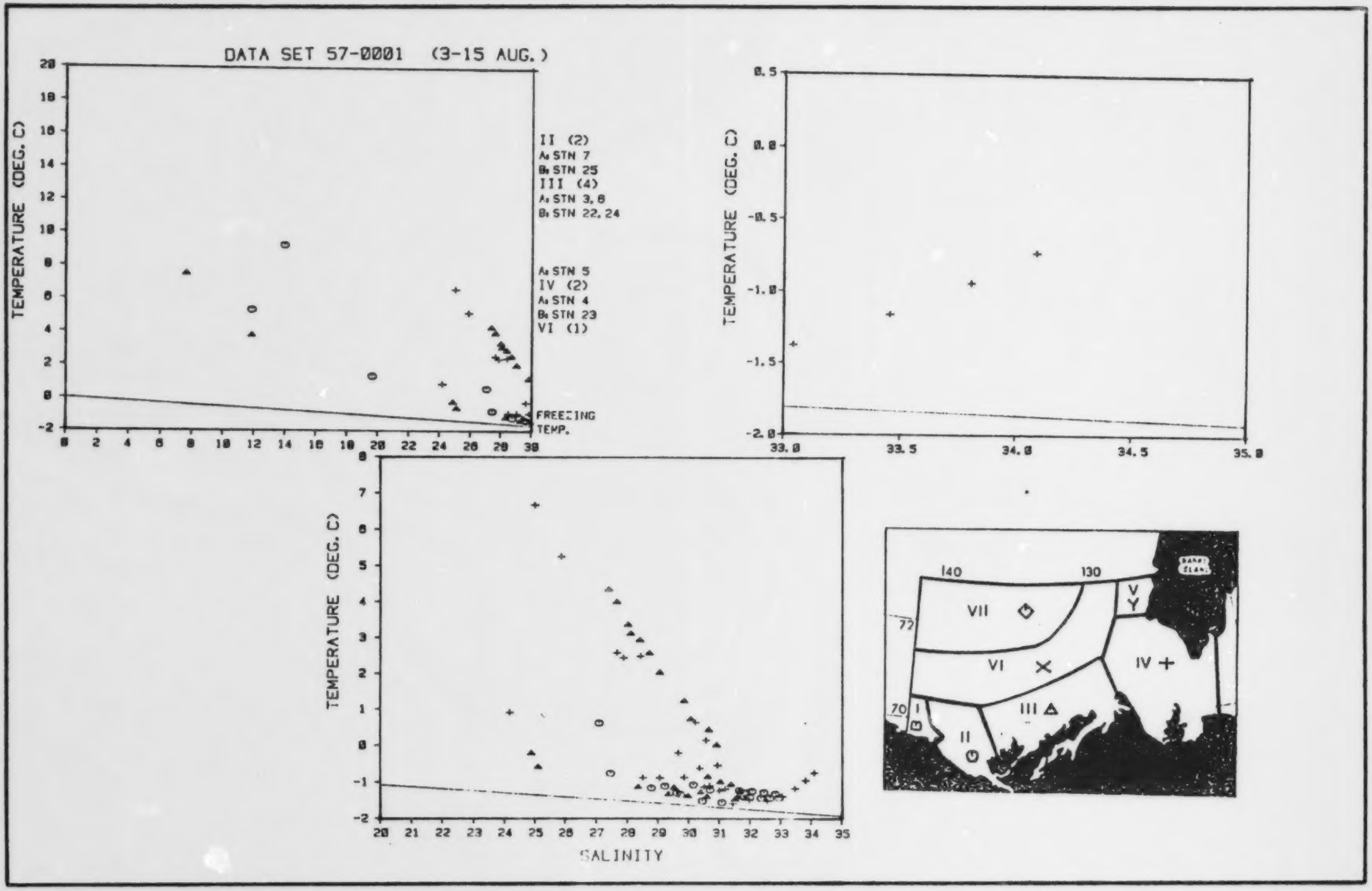
DATA SET 55-0001A, B (27 AUG-4 SEP, B) (2 AUG, A)



DATA SET 56-0001A, B (A:30-31 JUL. B:27 AUG.)

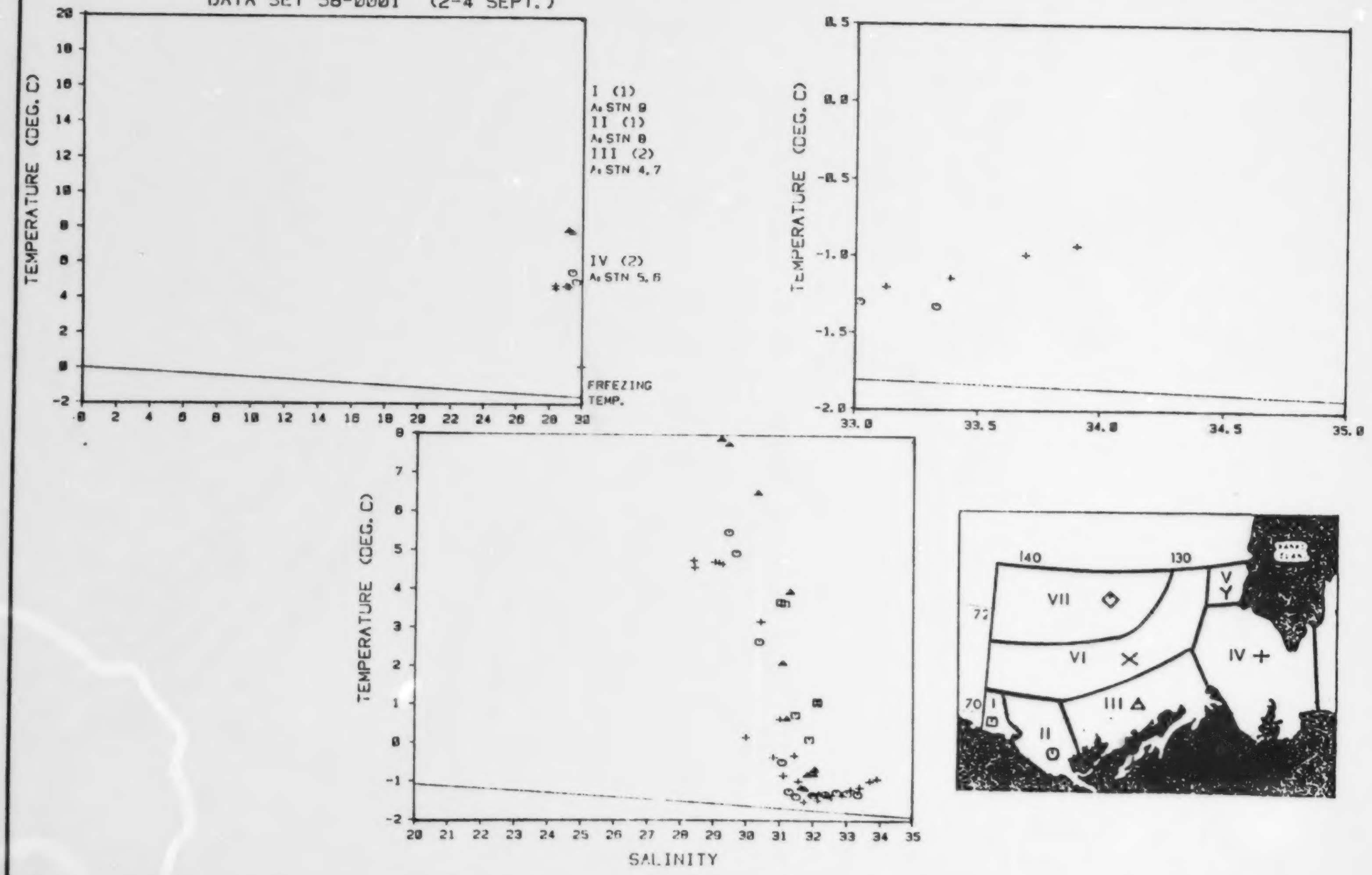


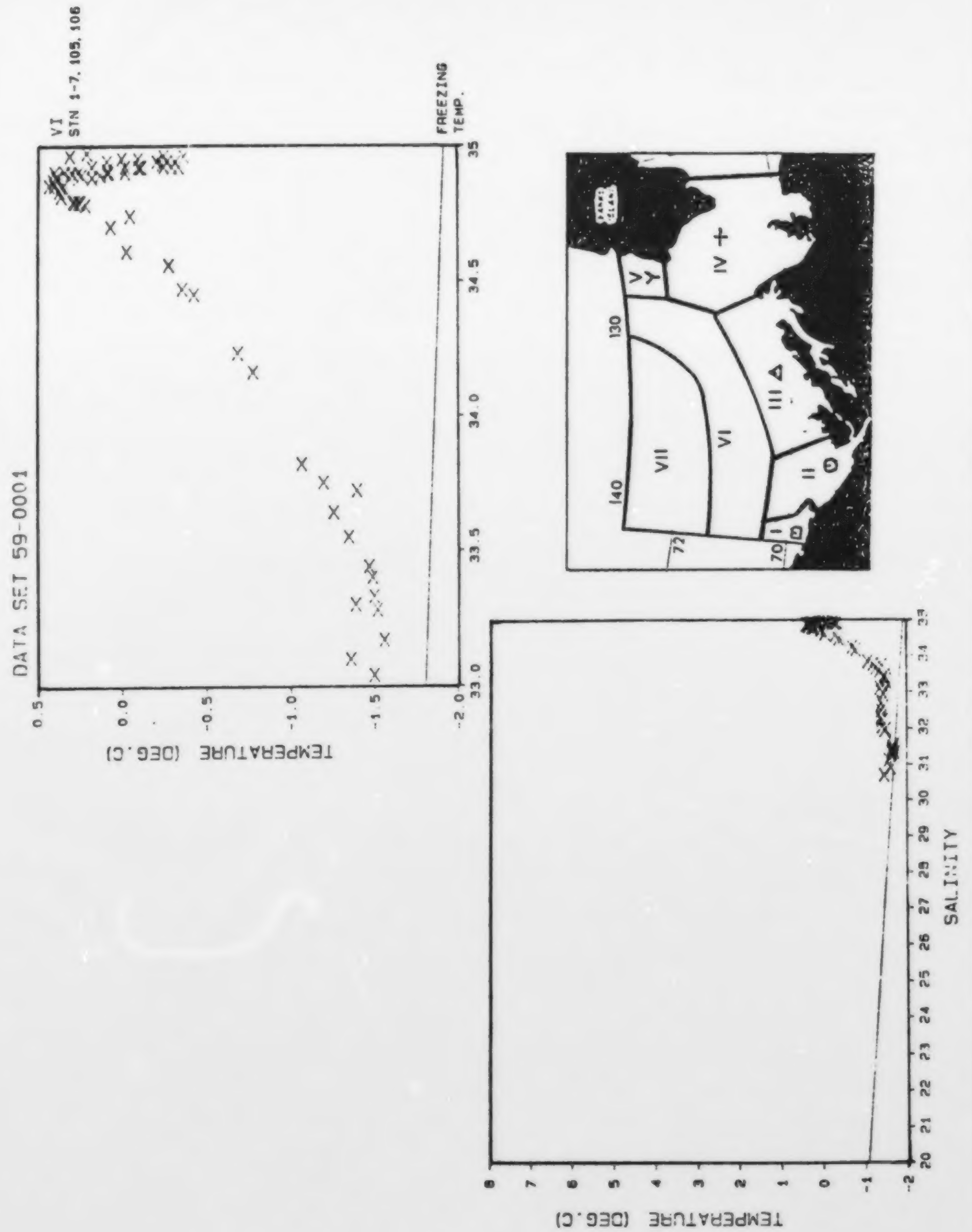

140
130
72
70
VII
VI
V
IV
III
II
I



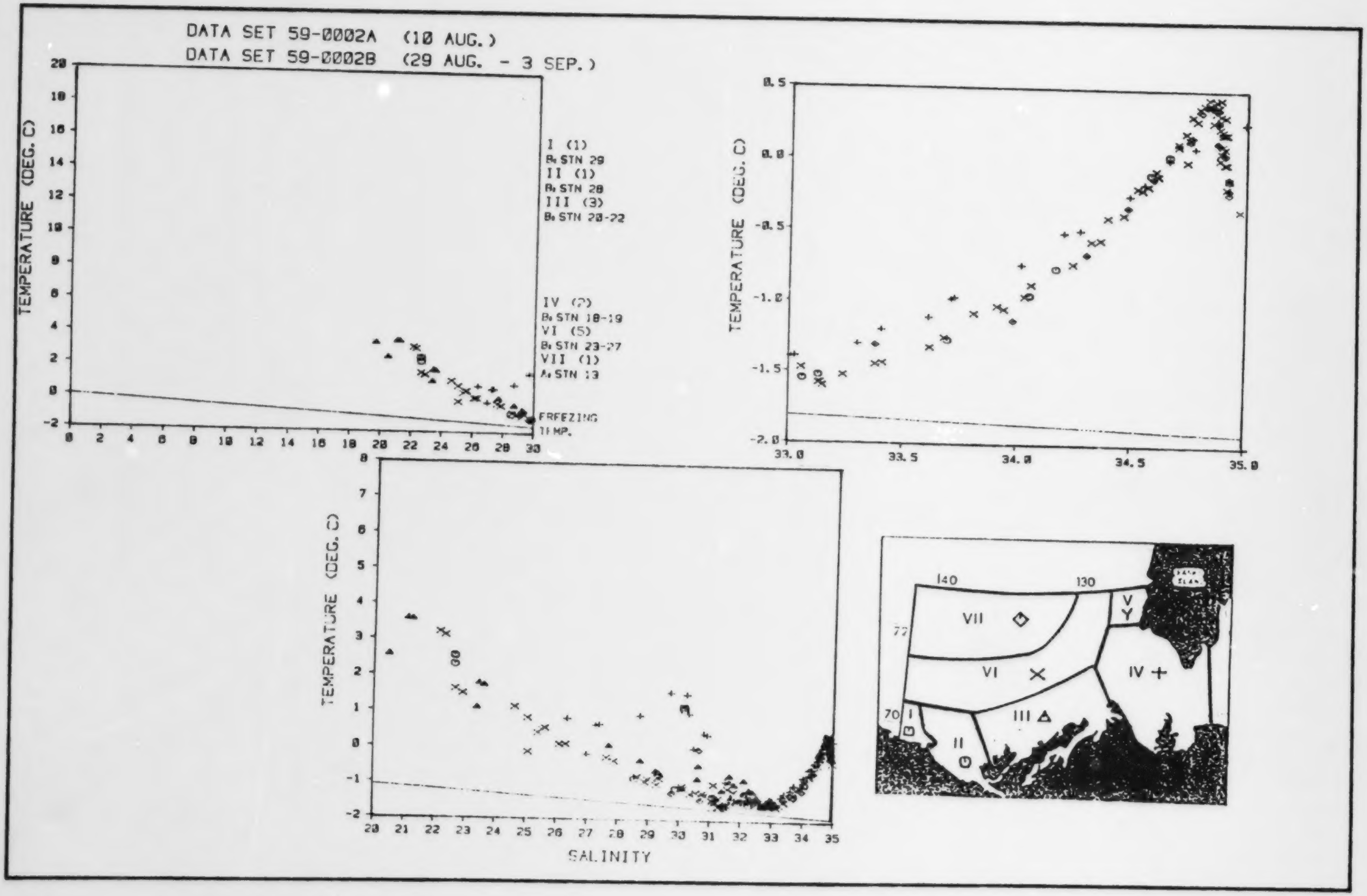
DATA SET 57-0001 (3-15 AUG.)

## DATA SET 58-0001 (2-4 SEPT.)

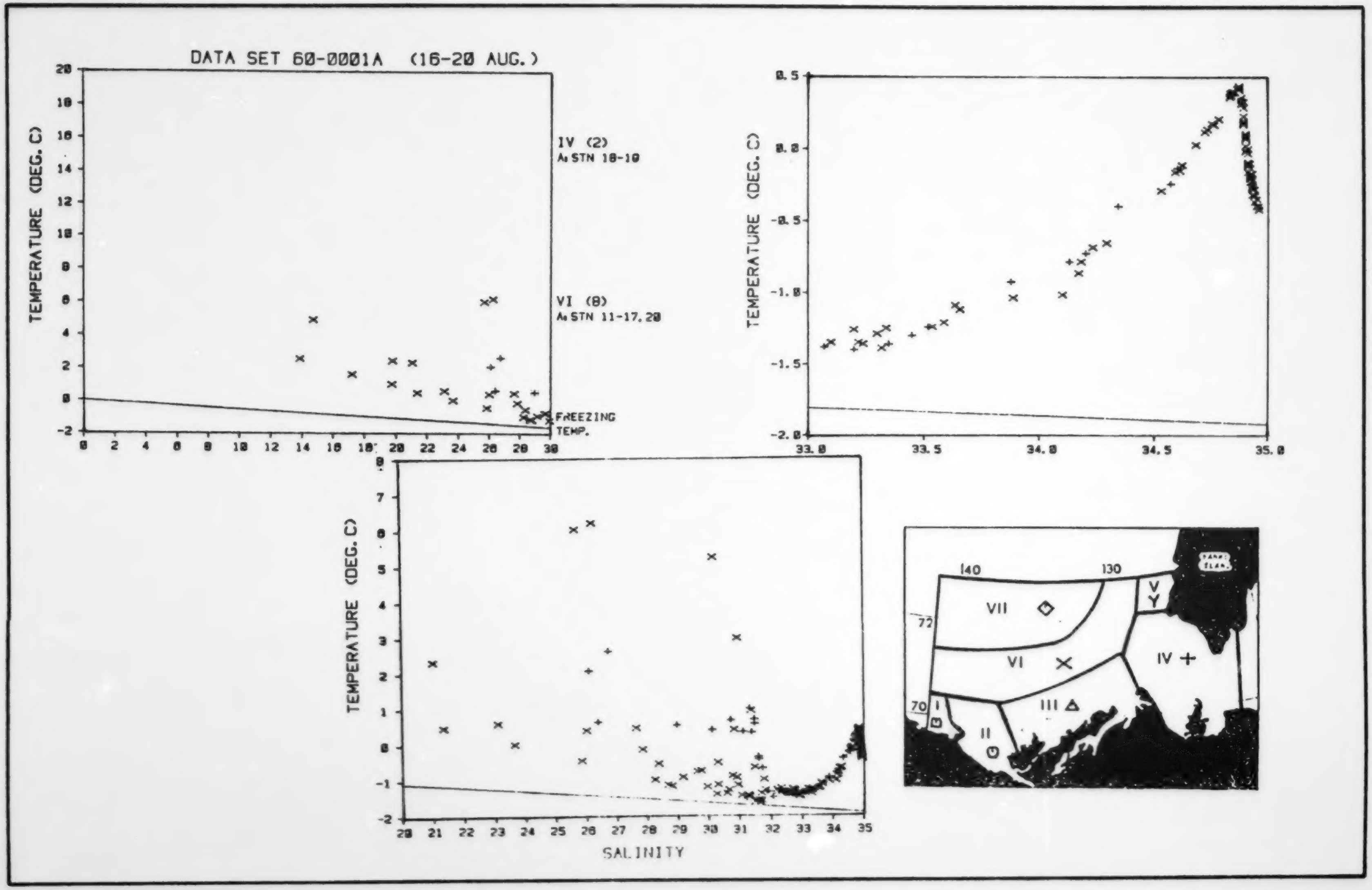



DATA SET 59-0001
VI
STN 1-7, 105, 106
FREEZING TEMP.
TEMPERATURE (DEG.C)
0.5
0.0
-0.5
-1.0
-1.5
-2.0
33.0
33.5
34.0
34.5
35
VII
VI
III
II
I
IV
V
130
140
72
70
TEMPERATURE (DEG.C)
8
7
6
5
4
3
2
1
0
-1
-2
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
SALINITY

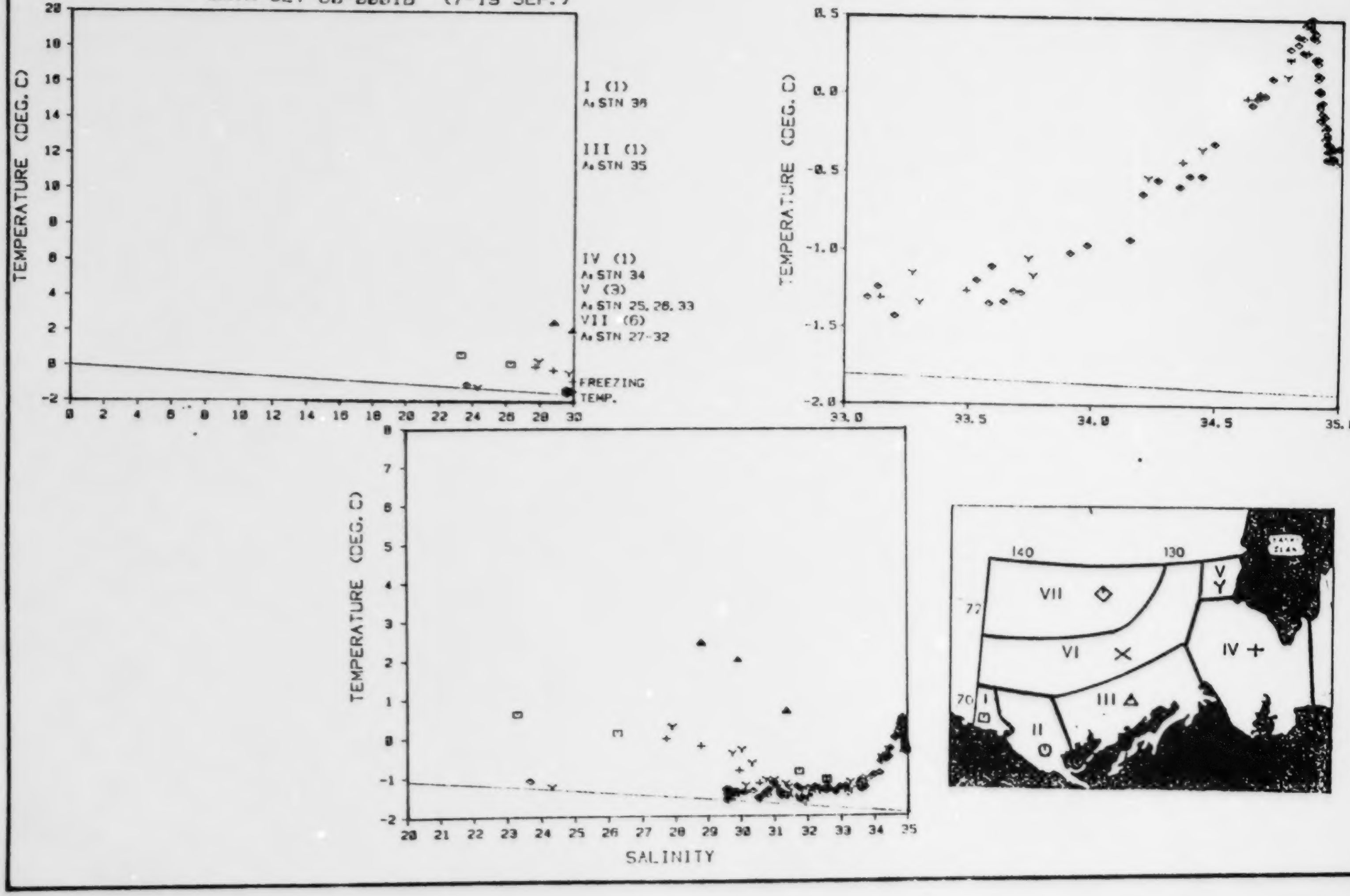
DATA SET 59-0002A (10 AUG.)
DATA SET 59-0002B (29 AUG. - 3 SEP.)



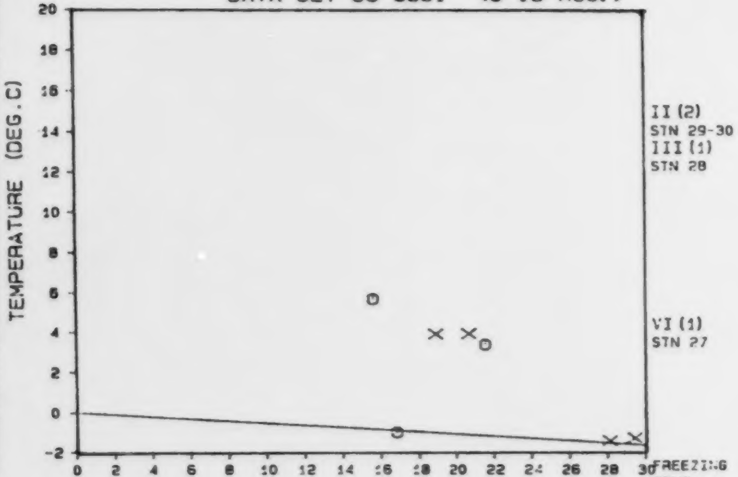
DATA SET 60-0001A (16-20 AUG.)

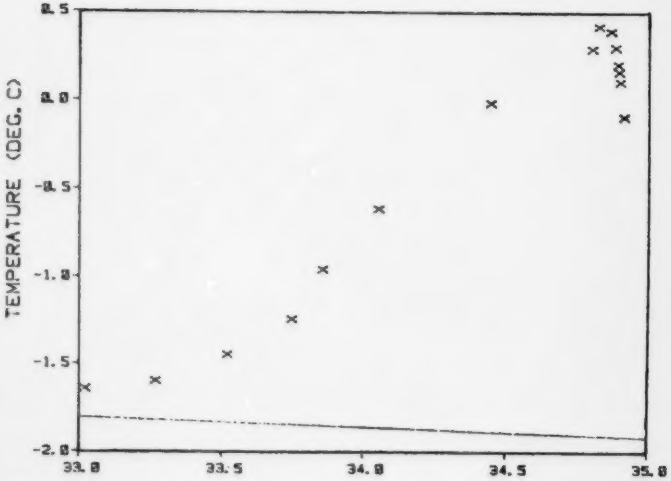


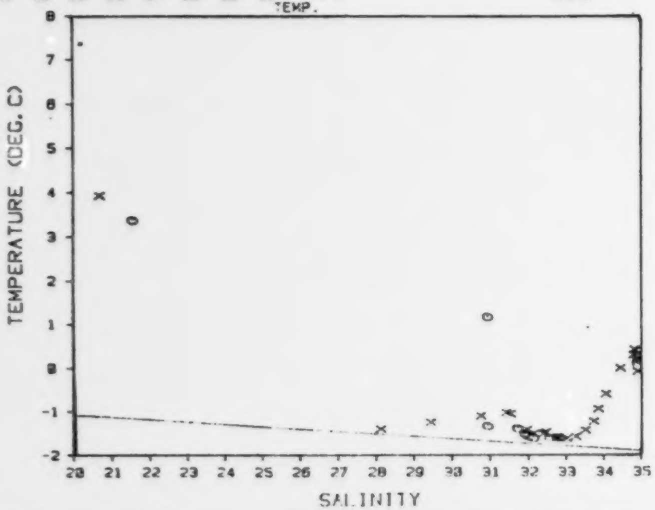
DATA SET 60-0001B (7-19 SEP.)

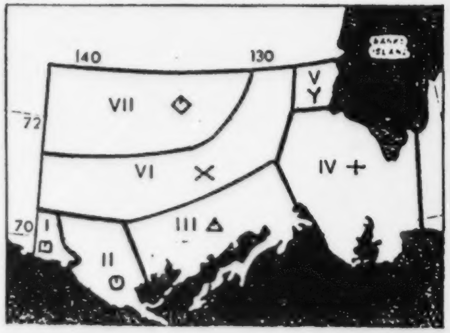


DATA SET 69-0001 (8-10 AUG.)

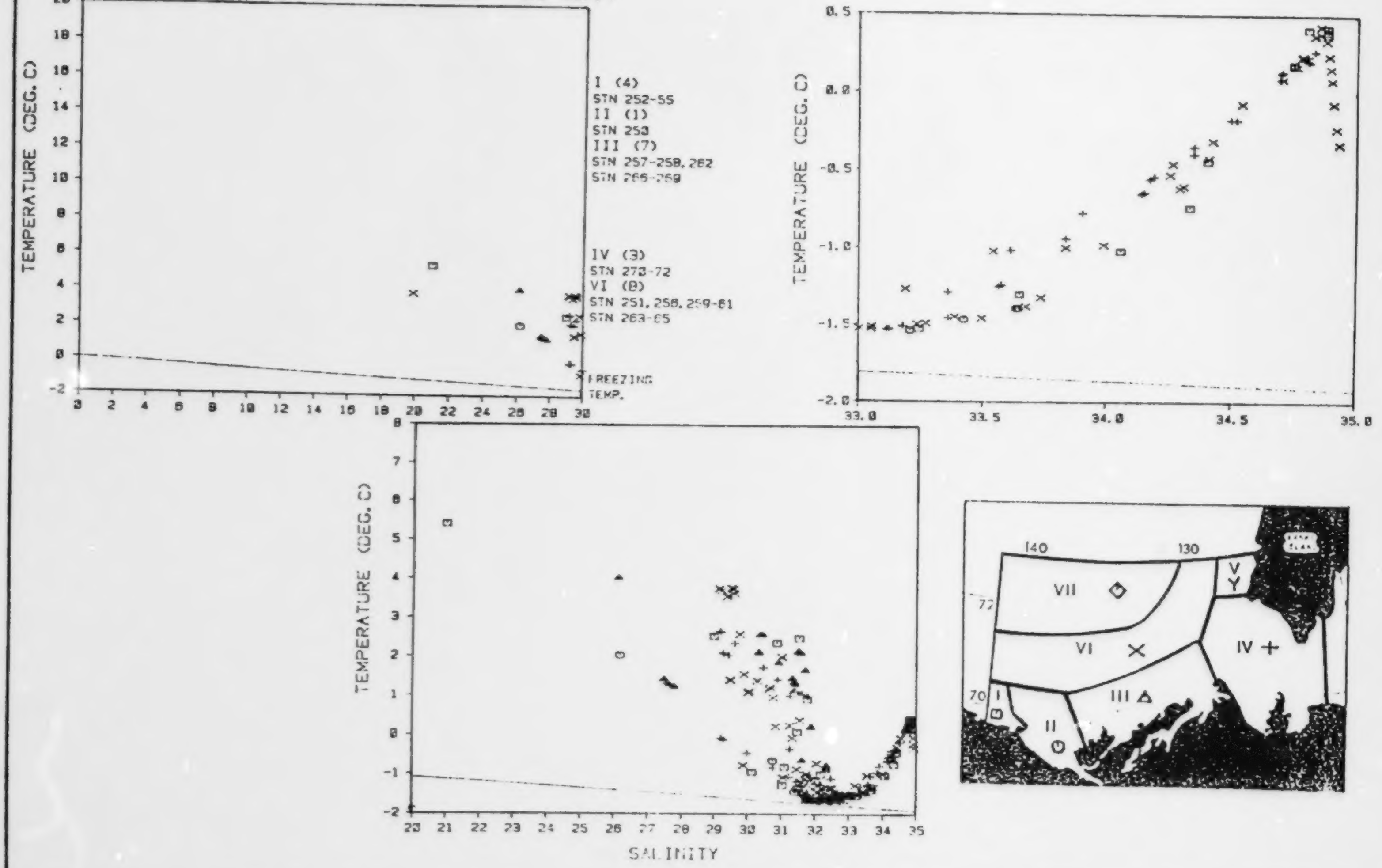




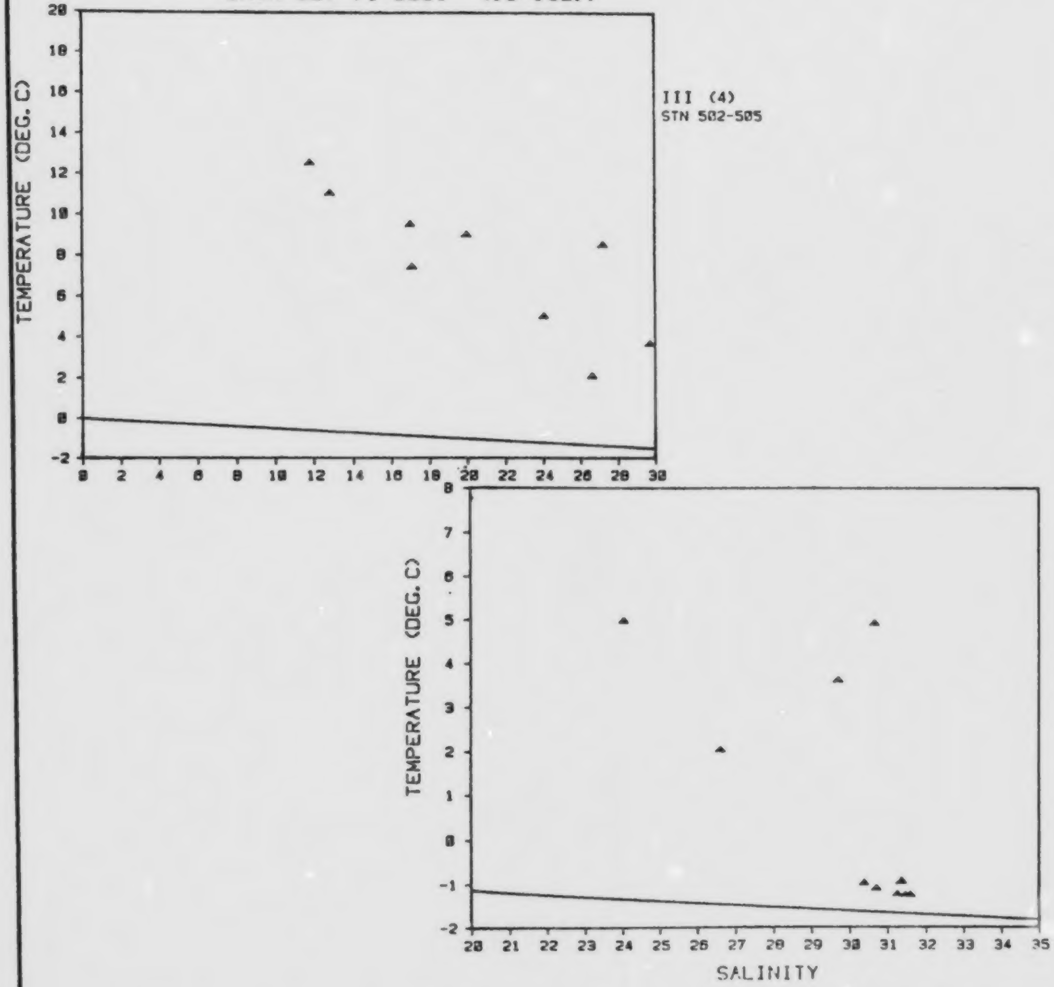


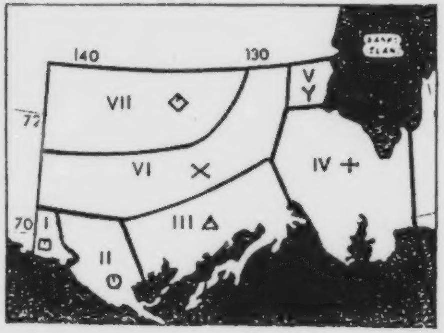

140
130
72
70
VII
VI
V
IV
III
II
I

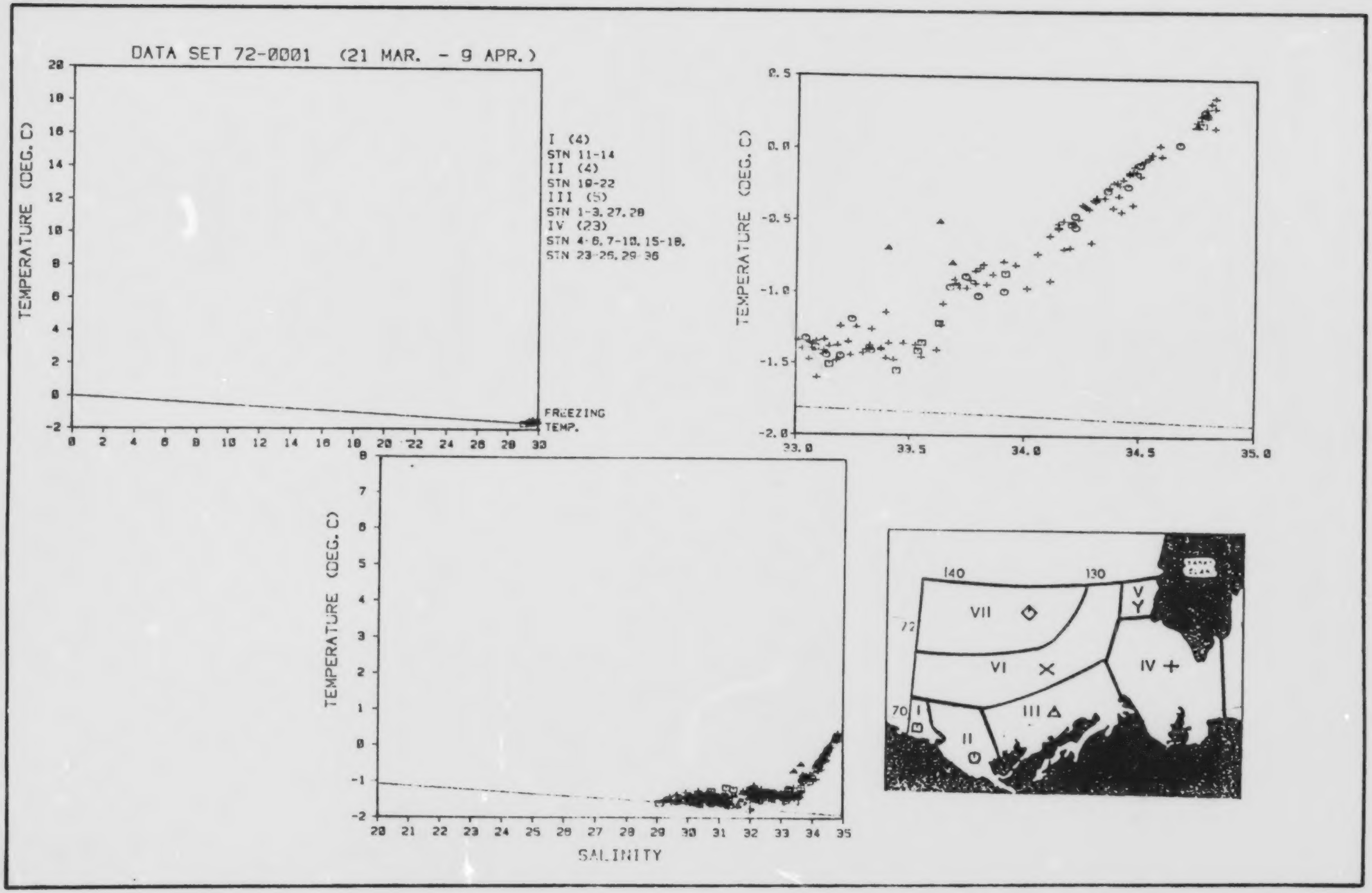
DATA SET 70-0002 (28 AUG. - 23 SEP.)



DATA SET 71-0001 (19 JUL.)

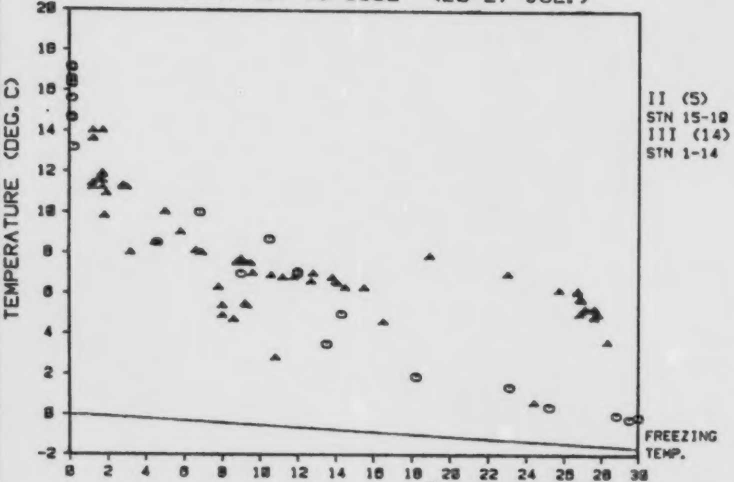


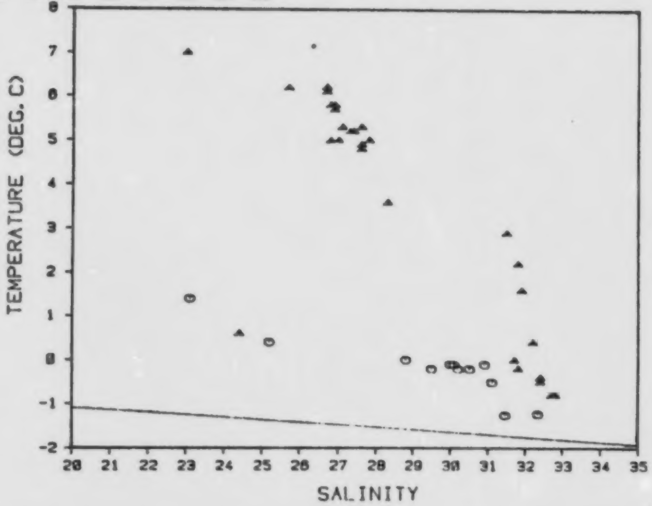

140
130
72
70
VII
VI
V
IV
III
II
I

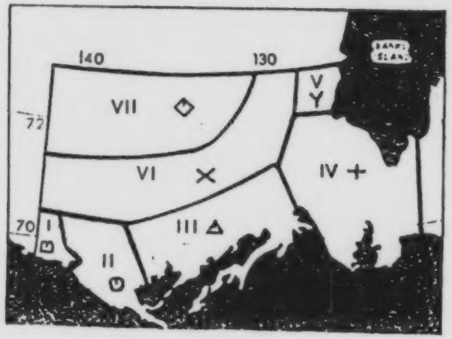


DATA SET 72-0001 (21 MAR. - 9 APR.)

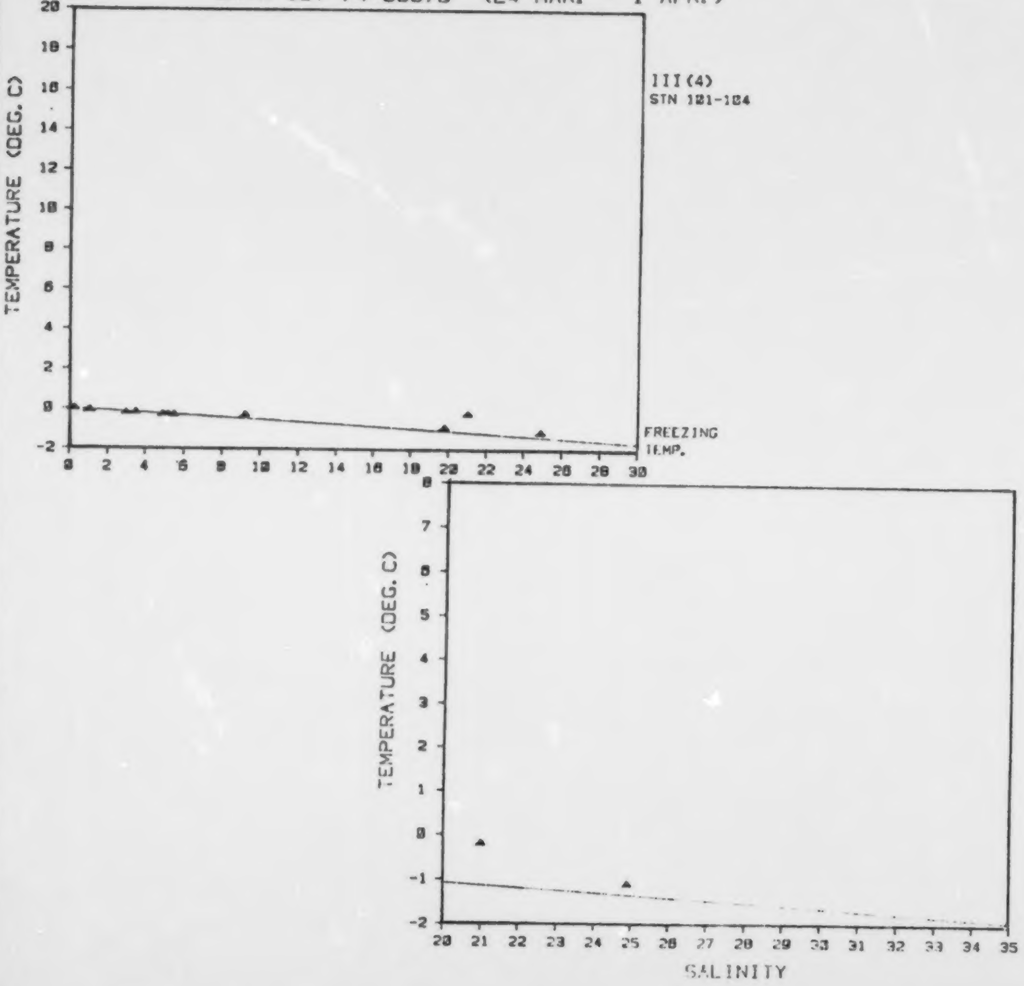
DATA SET 73-0002 (20-27 JUL.)

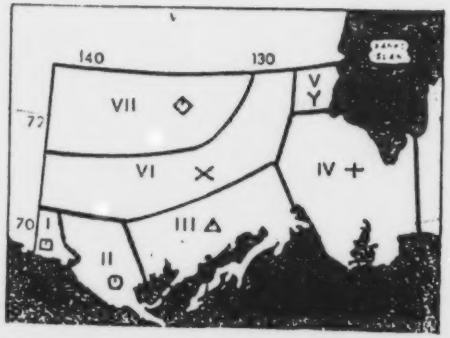




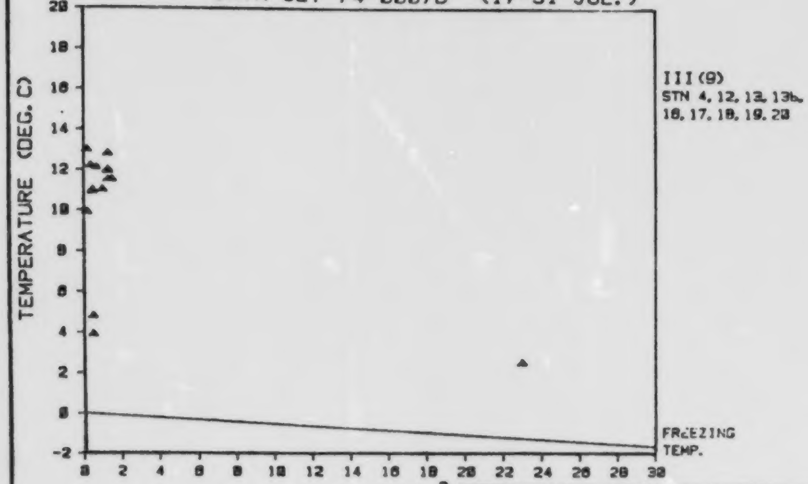

140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II
I

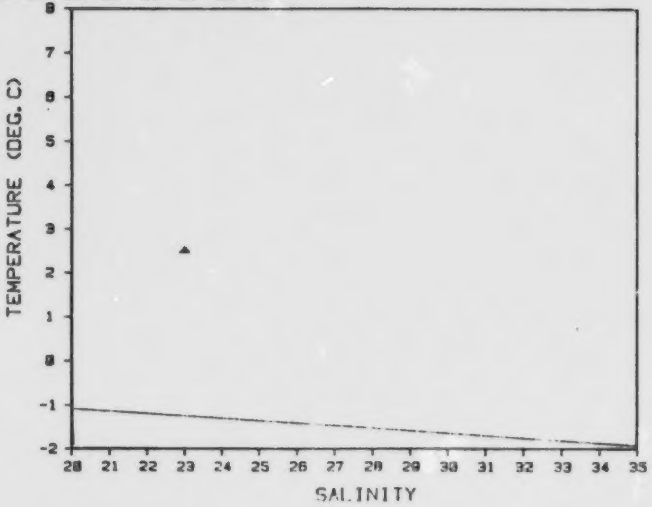
DATA SET 74-0007B (24 MAR. - 1 APR.)

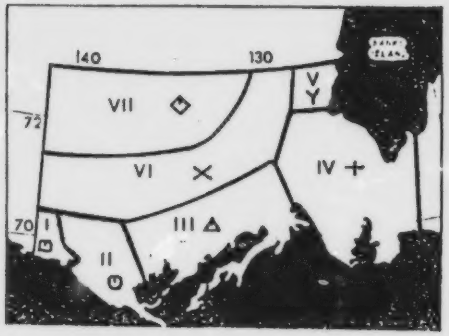



140
130
72
70
VII
VI
V
IV
III
II
I

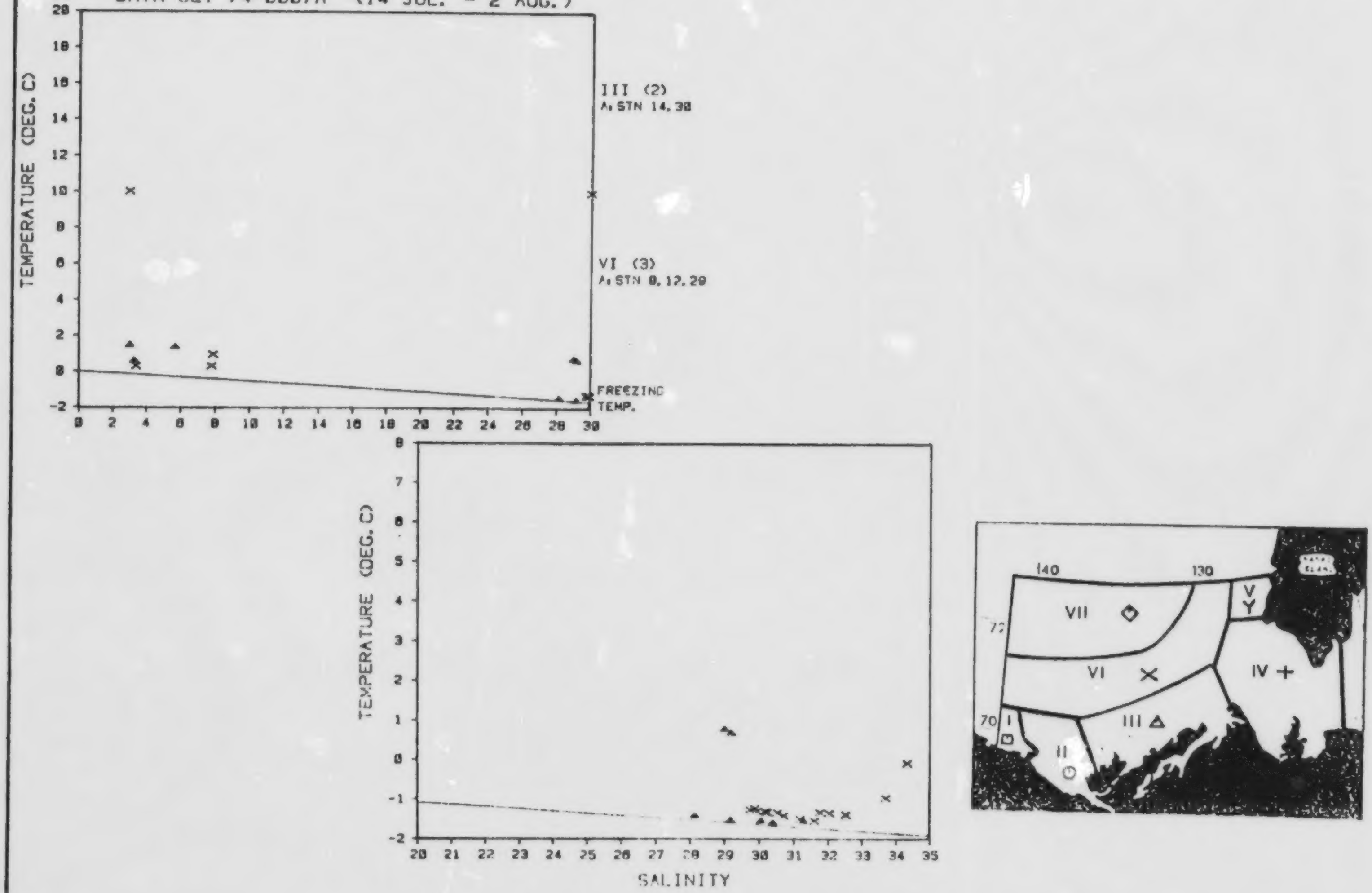
DATA SET 74-0007B (17-31 JUL.)



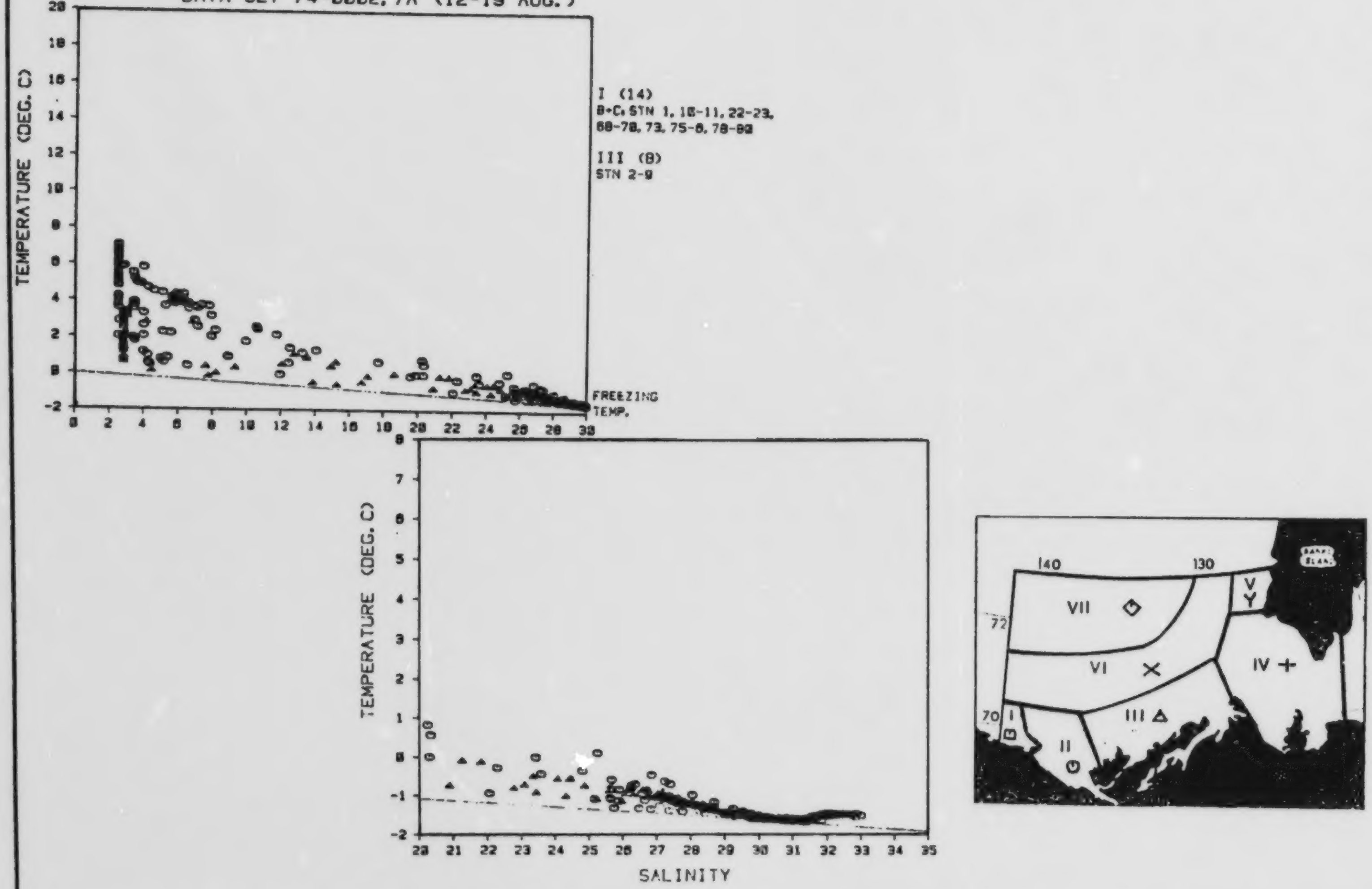


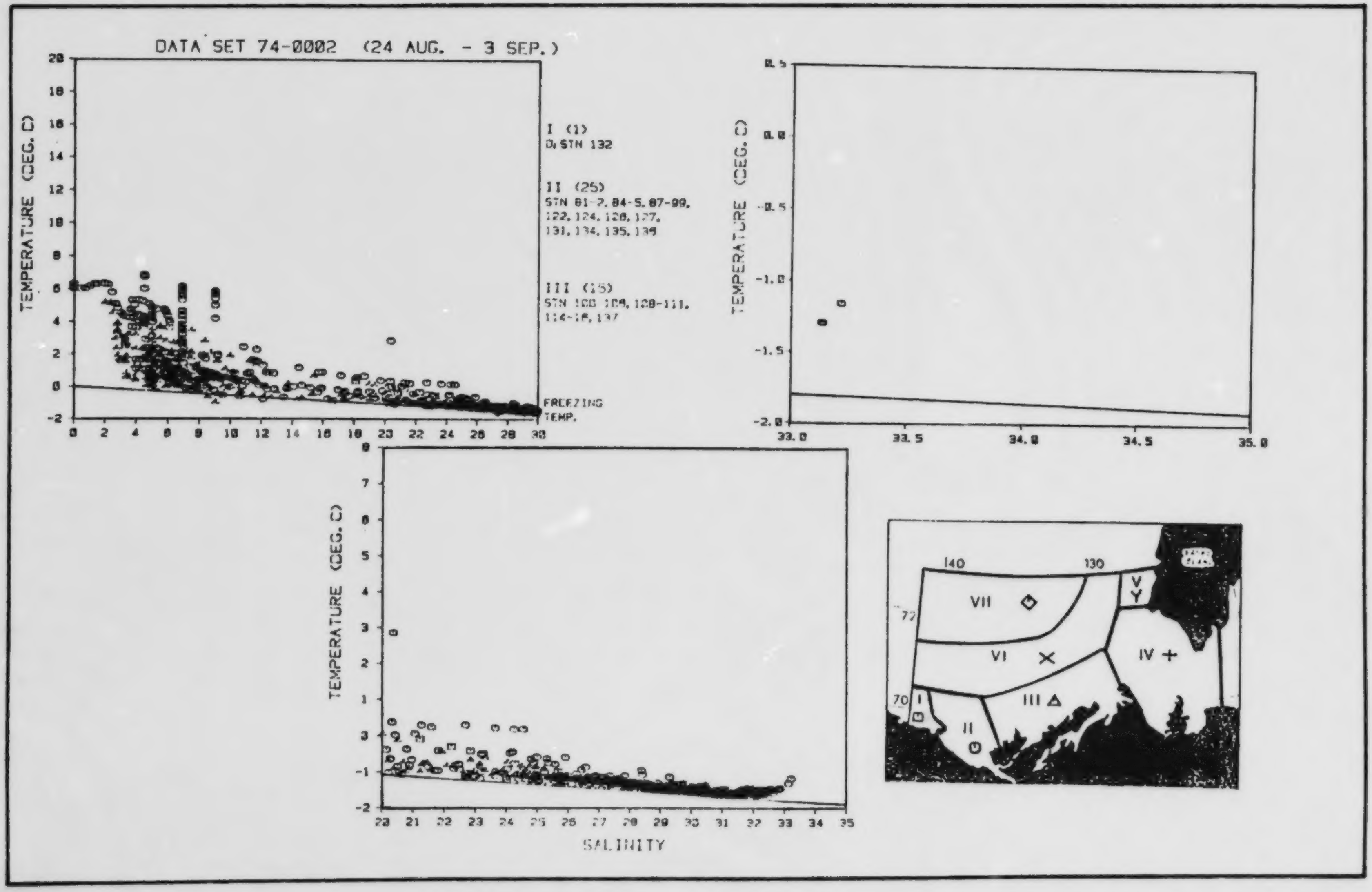

140
130
72
70
VII
VI
V
IV
III
II
I

DATA SET 74-0007A (14 JUL. - 2 AUG.)



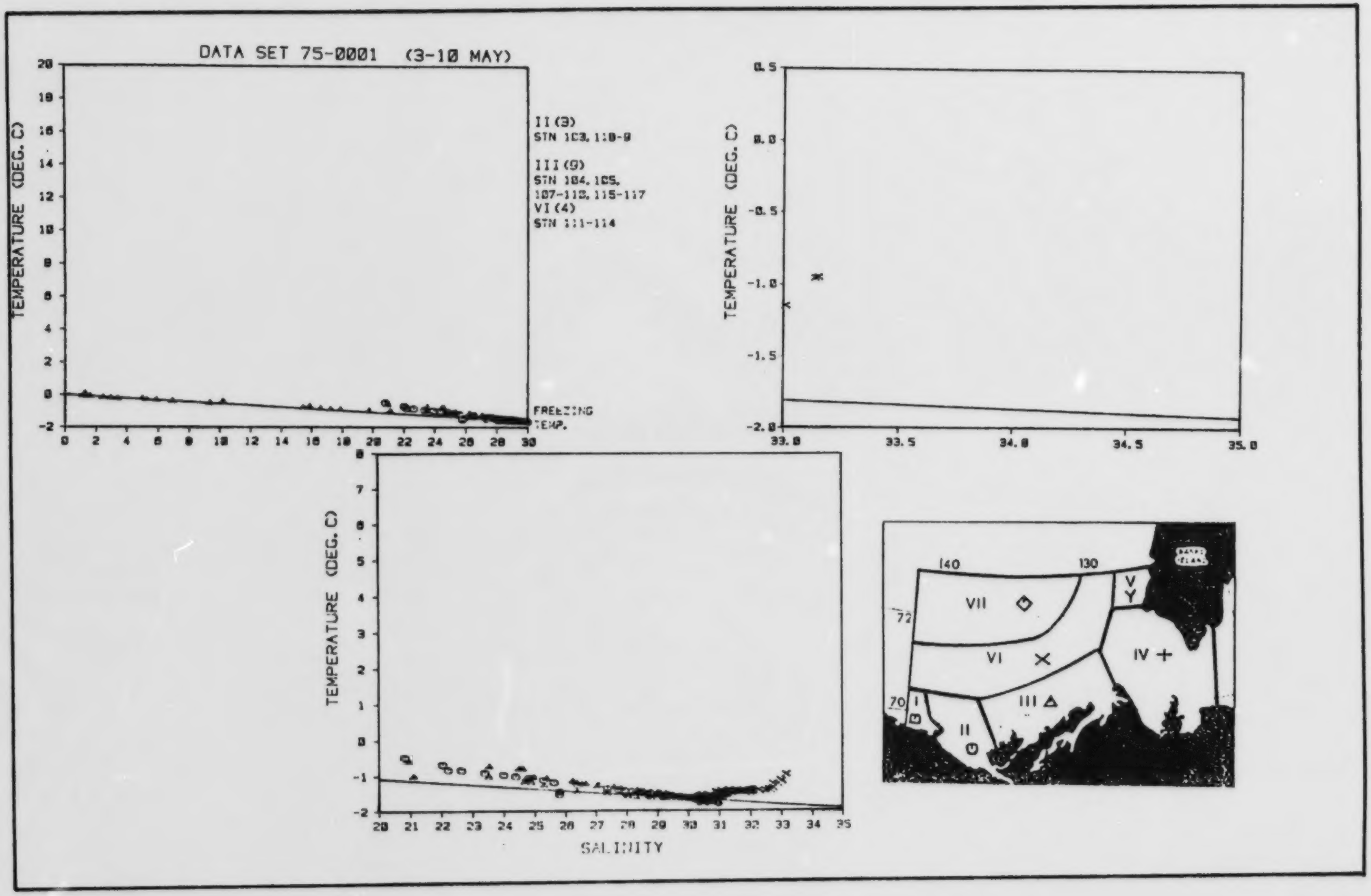
DATA SET 74-0002.7A (12-19 AUG.)



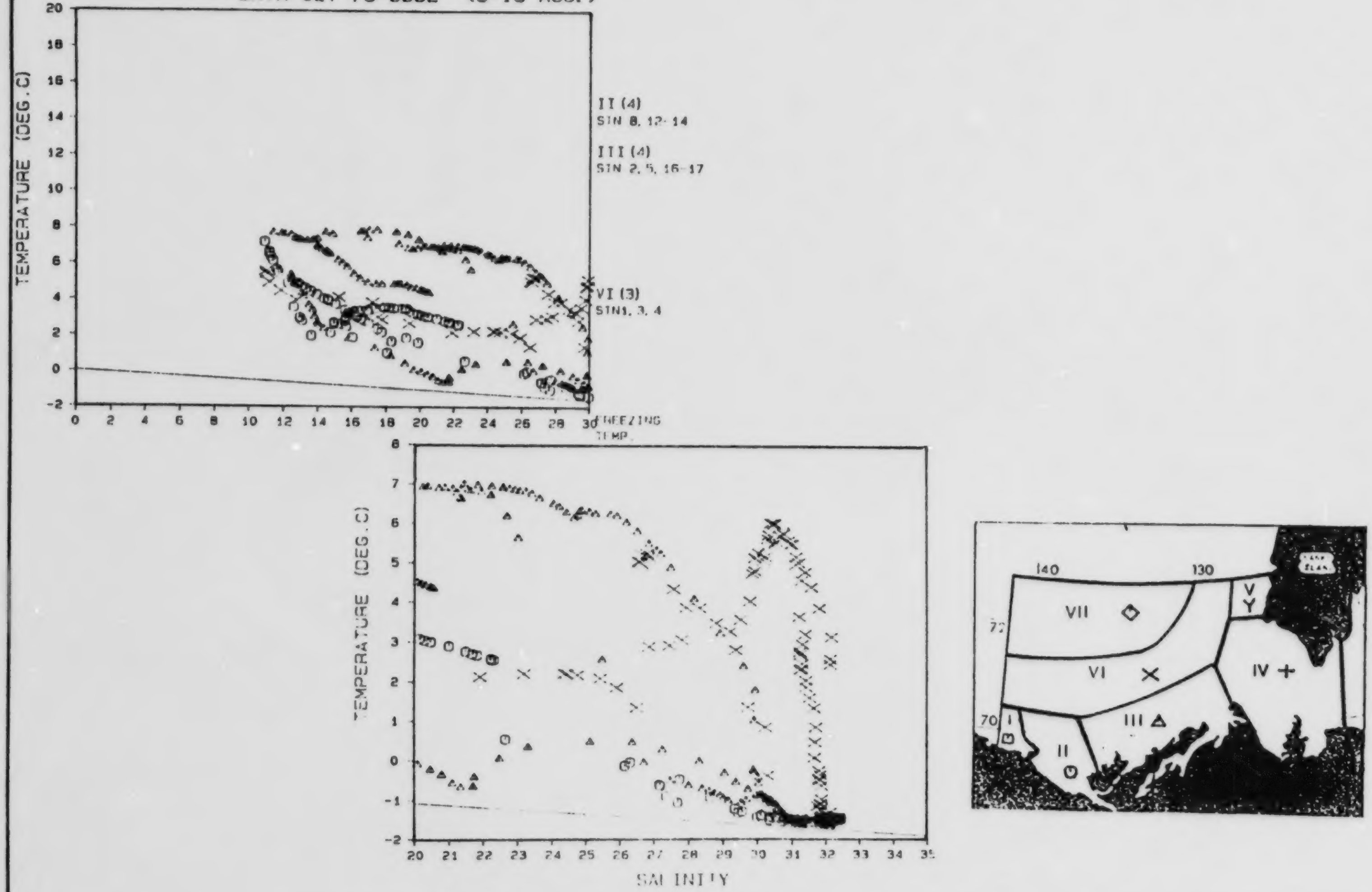


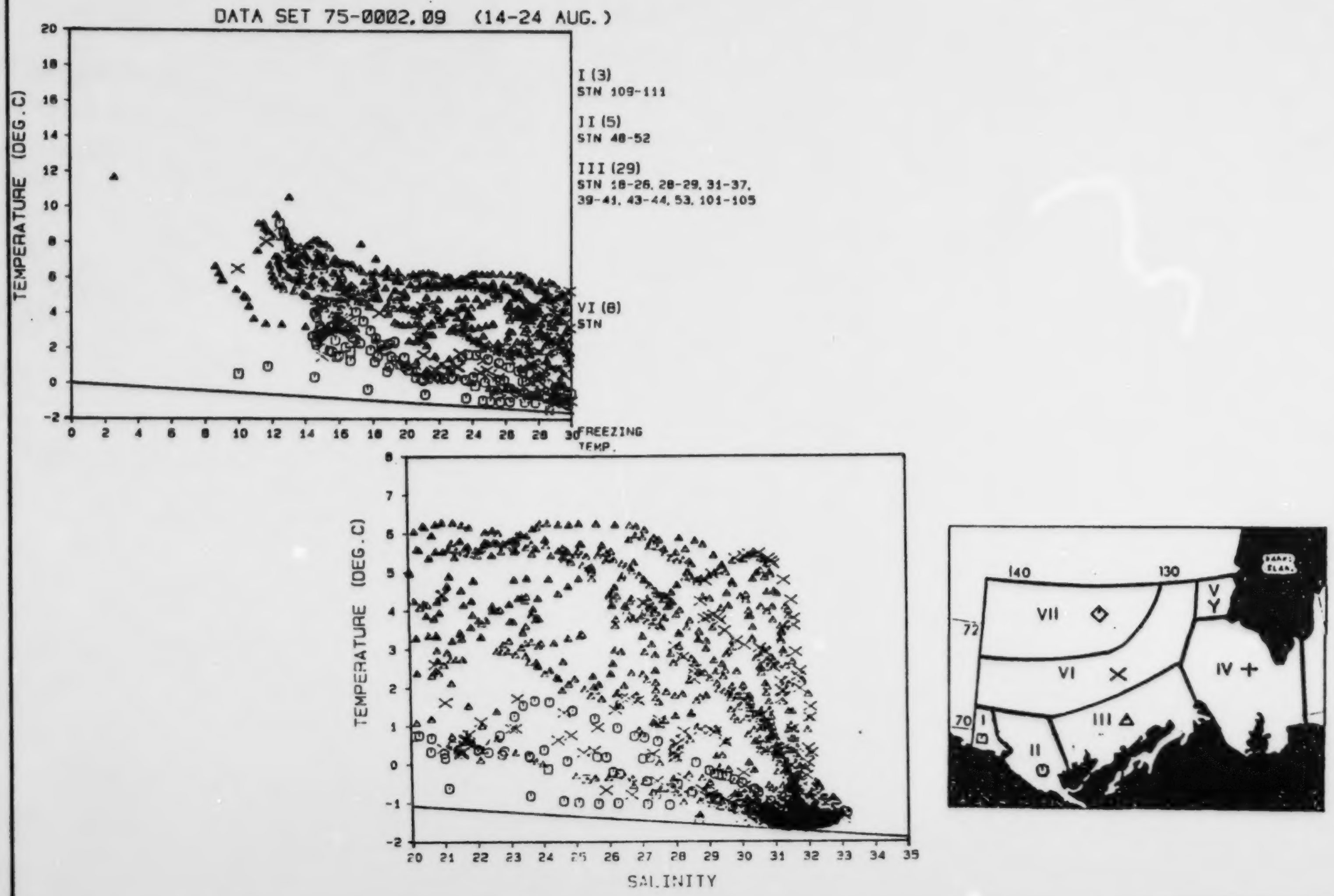
DATA SET 74-0002 (24 AUG. - 3 SEP.)

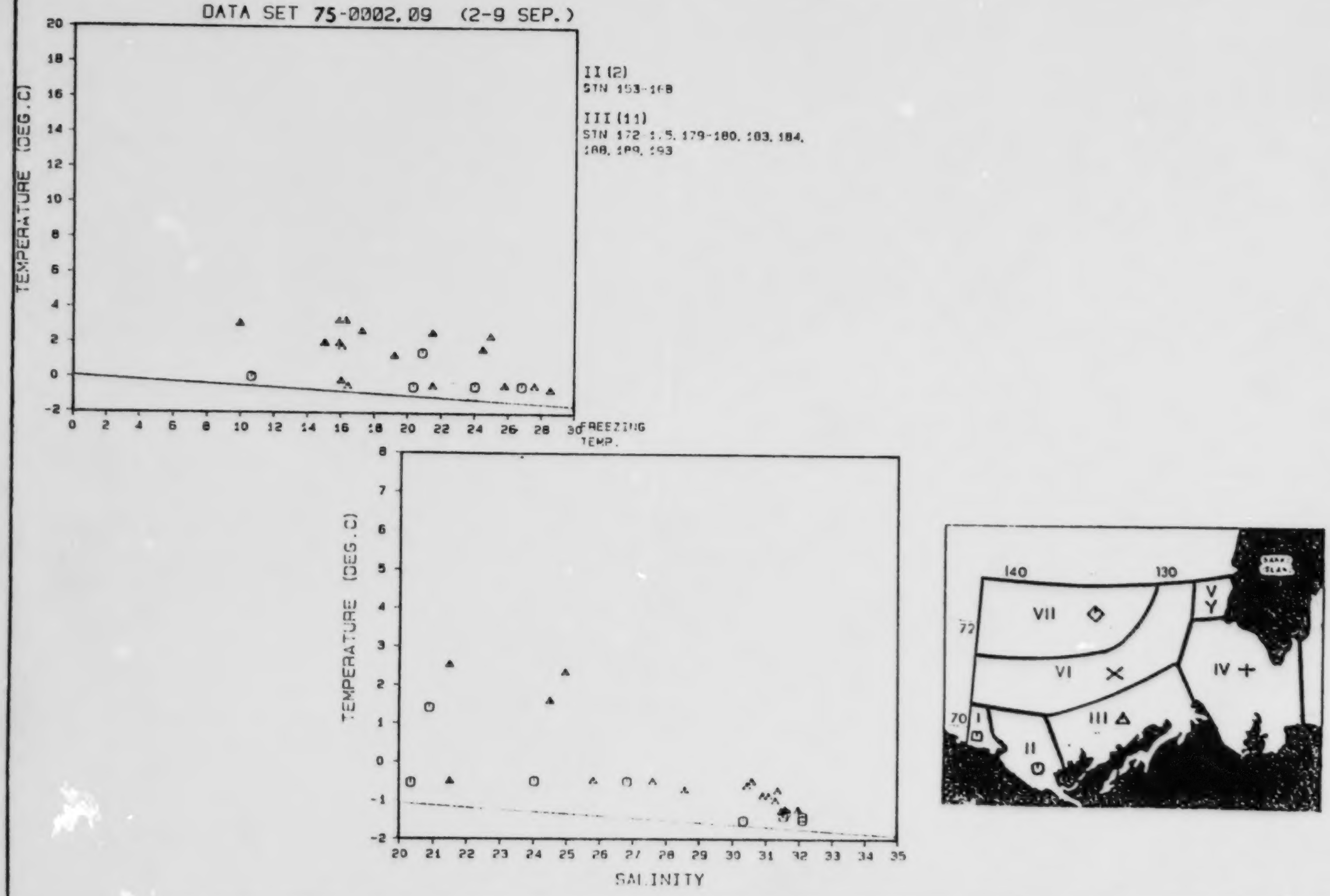
DATA SET 75-0001 (3-10 MAY)



DATA SET 75-0002 (5-13 AUG.)

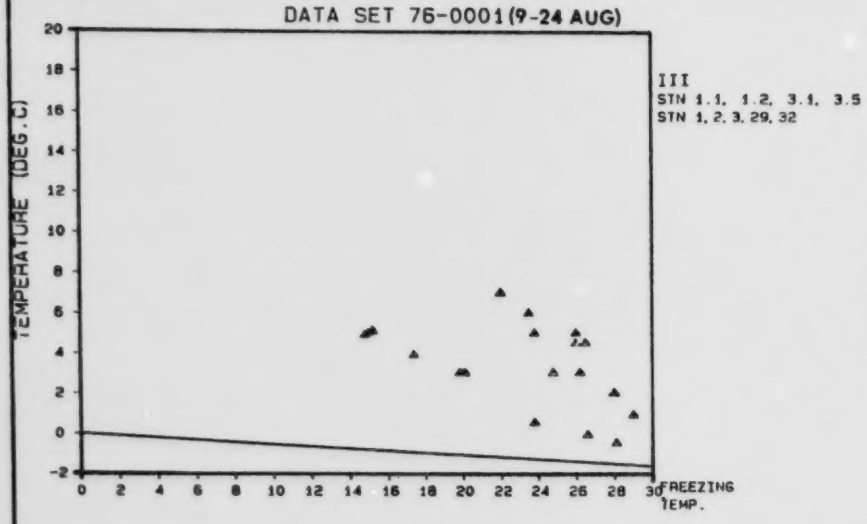


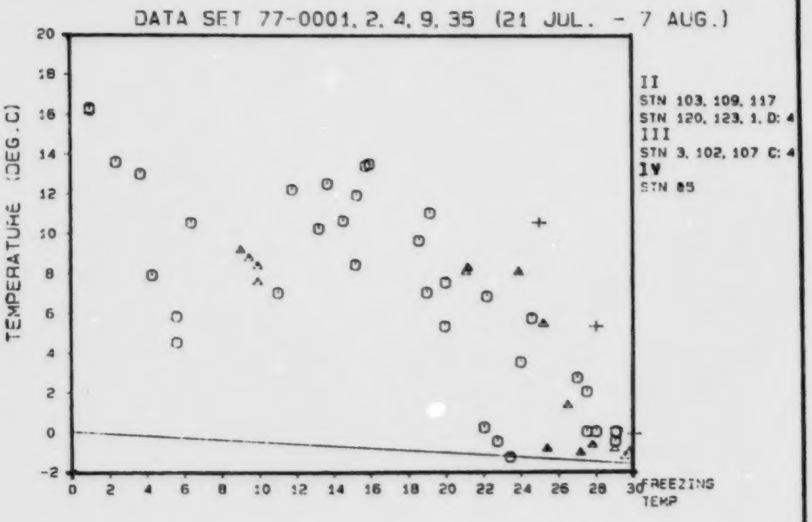

DATA SET 75-0002.09 (14-24 AUG.)
TEMPERATURE (DEG.C)
20
18
16
14
12
10
8
6
4
2
0
-2
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
FREEZING TEMP.
I (3)
STN 109-111
II (5)
STN 48-52
III (29)
STN 18-26, 28-29, 31-37, 39-41, 43-44, 53, 101-105
VI (8)
STN
TEMPERATURE (DEG.C)
8
7
6
5
4
3
2
1
0
-1
-2
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
SALINITY
140
130
72
70
VII
VI
V
IV
III
II
I

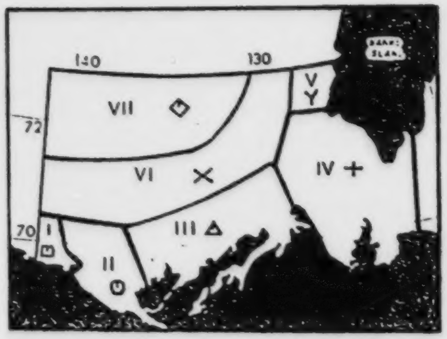

DATA SET 75-0002.09 (2-9 SEP.)

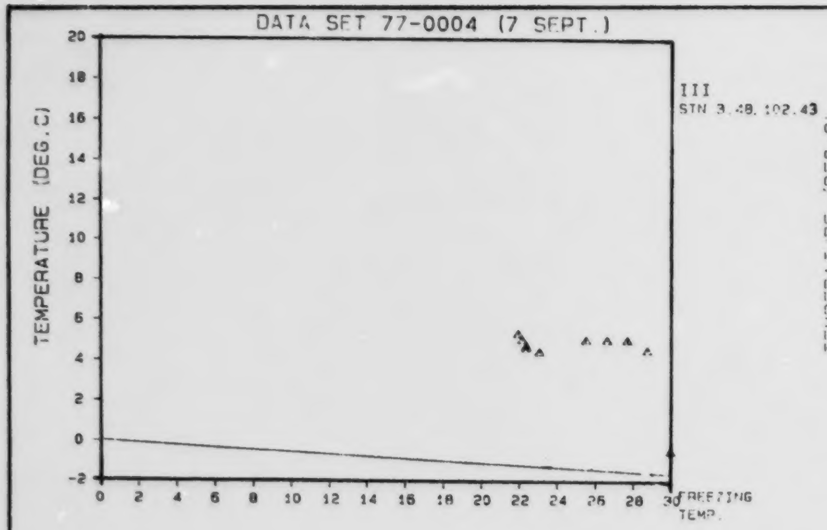
II (2)
STN 153-168

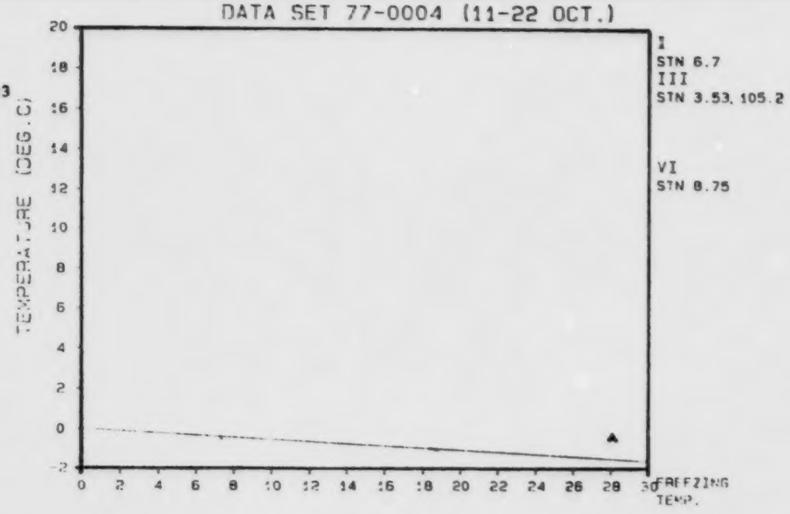
III (11)
STN 172-175, 179-180, 183, 184,
188, 189, 193

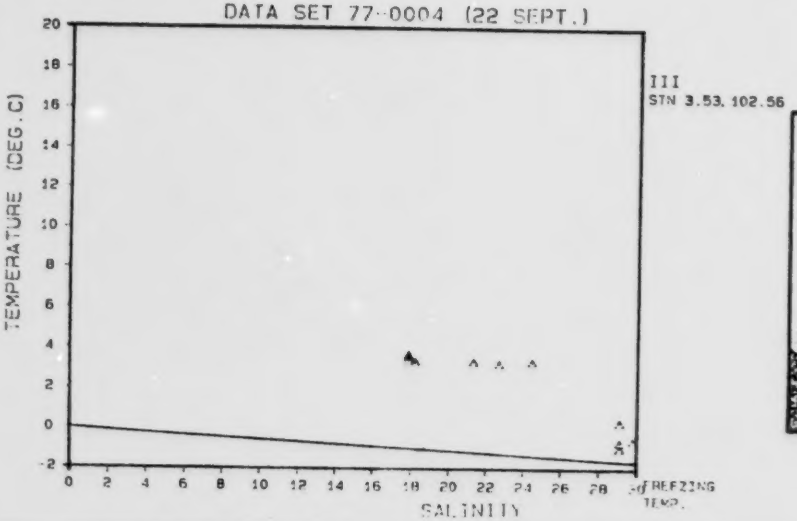

DATA SET 76-0001(9-24 AUG)
TEMPERATURE (DEG.C)
20
18
16
14
12
10
8
6
4
2
0
-2
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
FREEZING TEMP.
III
STN 1.1, 1.2, 3.1, 3.5
STN 1, 2, 3, 29, 32

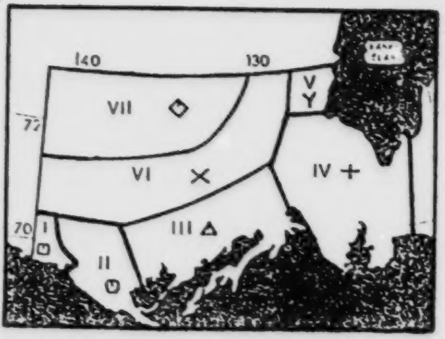

DATA SET 77-0001, 2, 4, 9, 35 (21 JUL. - 7 AUG.)
TEMPERATURE (DEG.C)
20
18
16
14
12
10
8
6
4
2
0
-2
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
FREEZING TEMP
II
STN 103, 109, 117
STN 120, 123, 1, D: 4
III
STN 3, 102, 107 C: 4
IV
STN 85

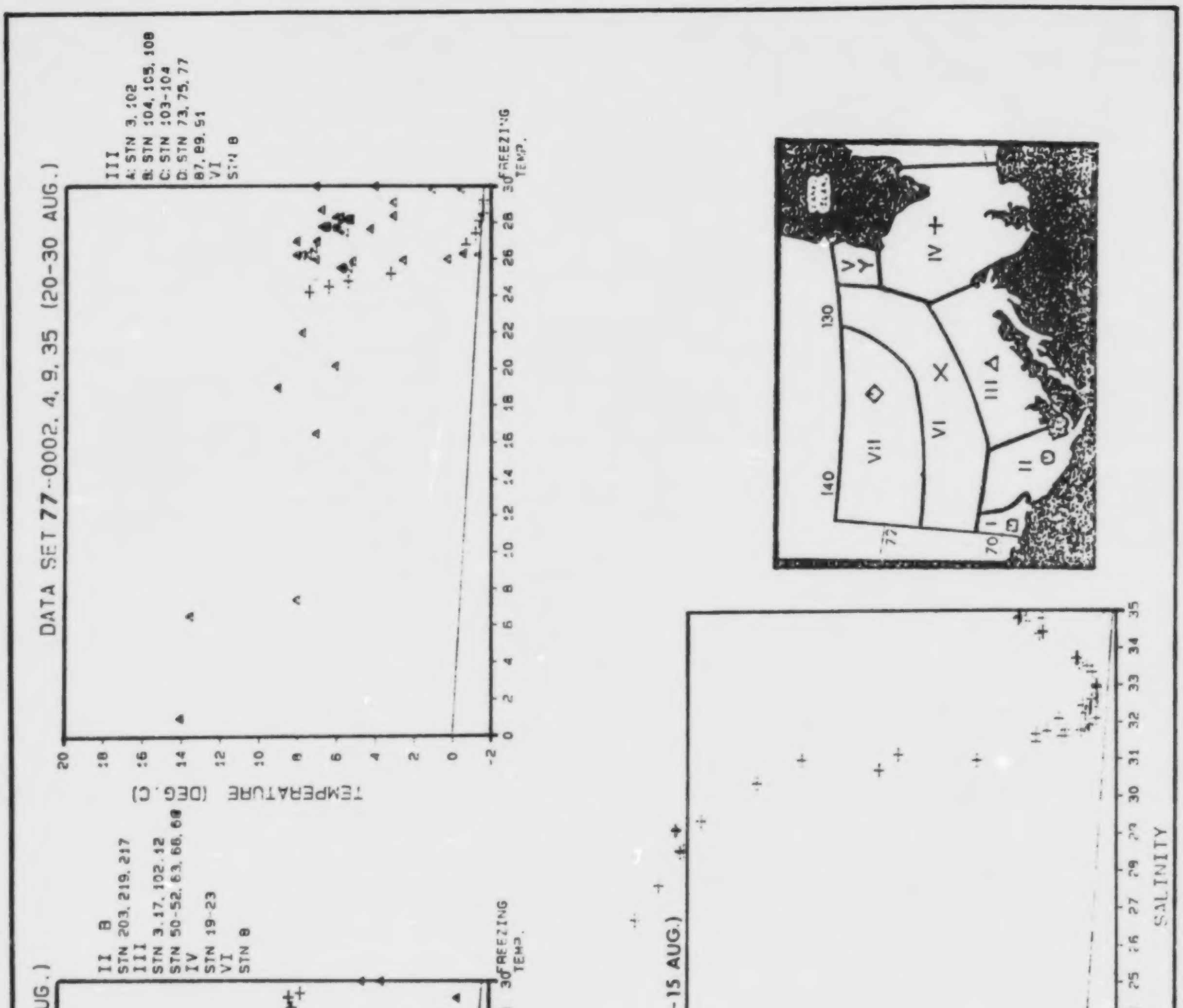

140
130
72
70
VII
VI
V
IV
III
II
I

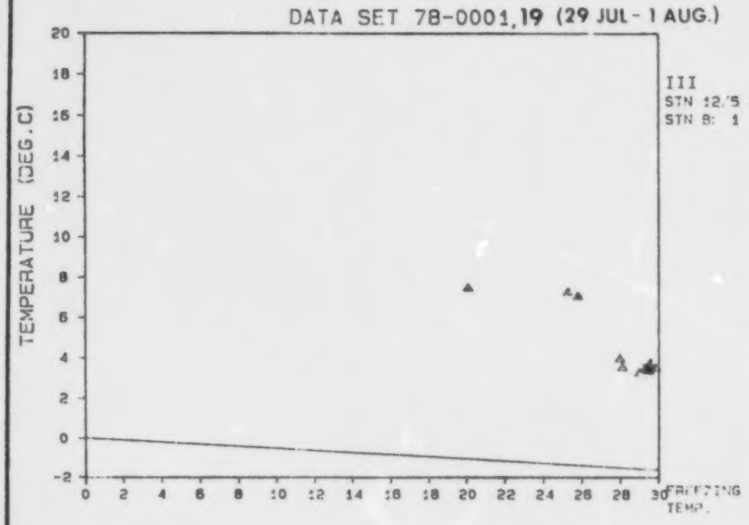

DATA SET 77-0004 (7 SEPT.)

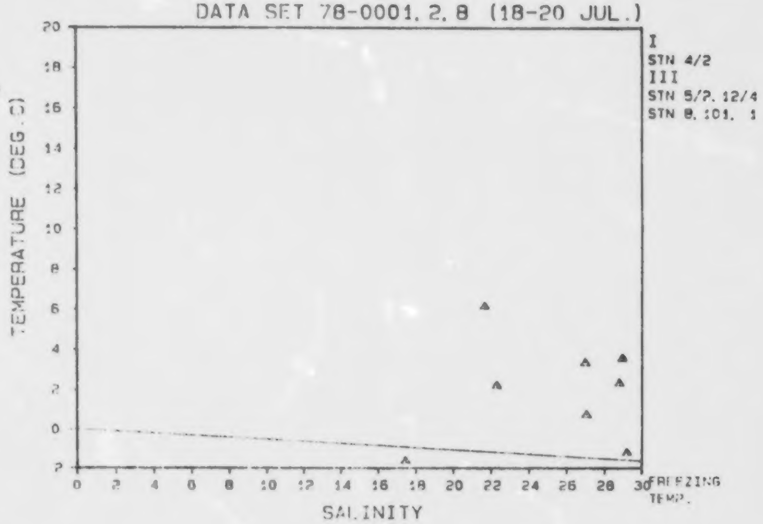

DATA SET 77-0004 (11-22 OCT.)

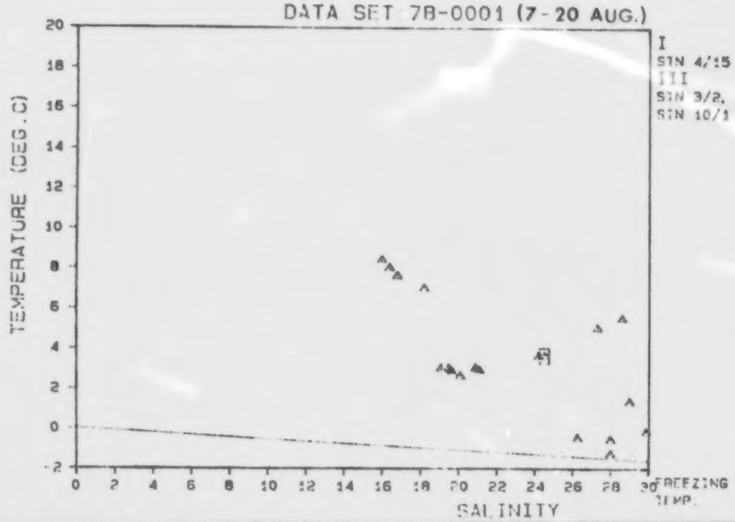

DATA SET 77-0004 (22 SEPT.)

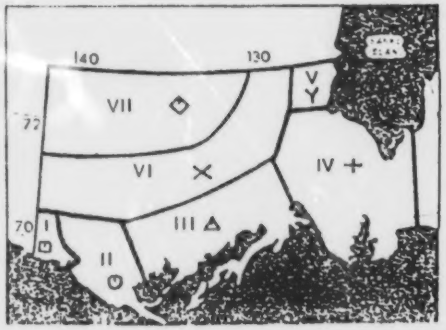

140
130
72
70
VII
VI
V
IV
III
II
I

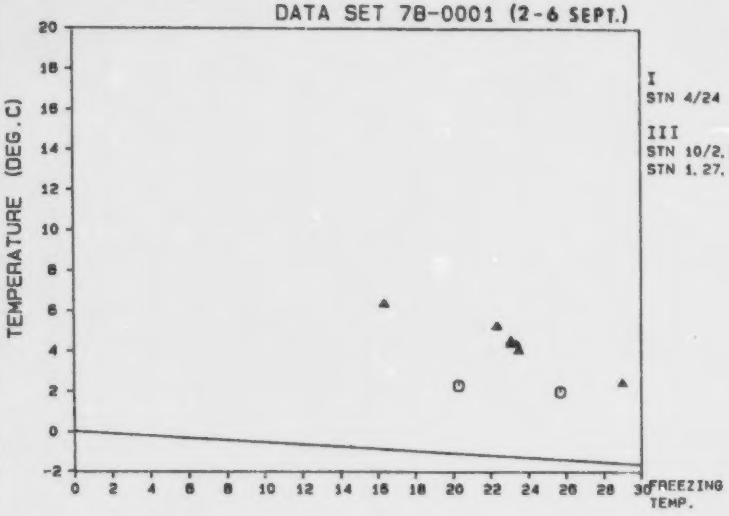

DATA SET 77-0001,03,04,35 (7-15 AUG.)
II B
STN 203, 219, 217
III
STN 3, 17, 102, 12
STN 50-52, 63, 66, 68
IV
STN 19-23
VI
STN 8
FREEZING TEMP.
TEMPERATURE (DEG.C)
DATA SET 77-0002, 4, 9, 35 (20-30 AUG.)
III
A: STN 3, 102
B: STN 104, 105, 108
C: STN 103-104
D: STN 73, 75, 77
87, 89, 51
VI
STN 8
FREEZING TEMP.
TEMPERATURE (DEG.C)
77-0003 (14-15 AUG.)
TEMPERATURE (DEG.C)
SALINITY
130
140
VII
VI
V
IV
III
II
I
70
72

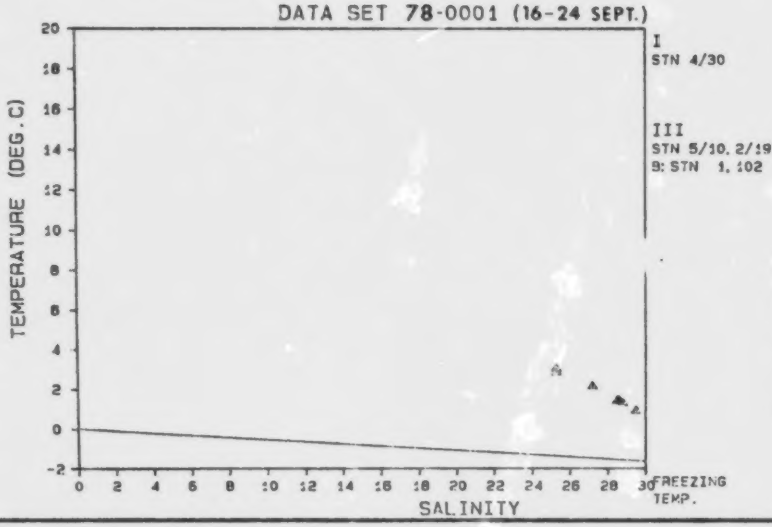

DATA SET 78-0001,19 (29 JUL- 1 AUG.)

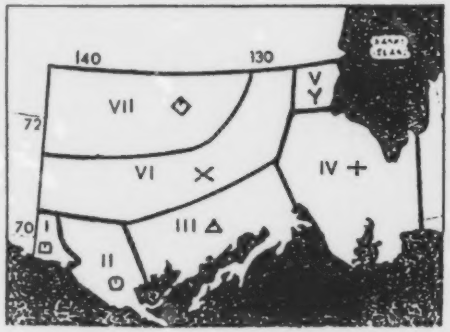

DATA SET 78-0001, 2, 8 (18-20 JUL.)

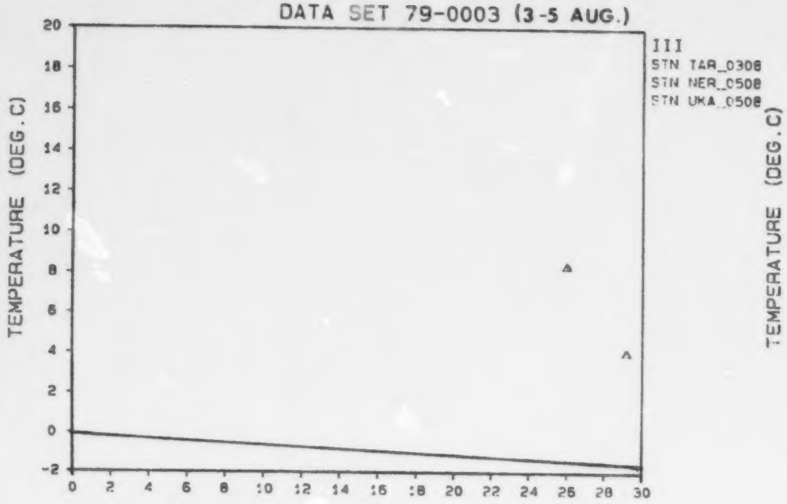

DATA SET 78-0001 (7-20 AUG.)


140
130
72
70
I
II
III
IV
V
VI
VII

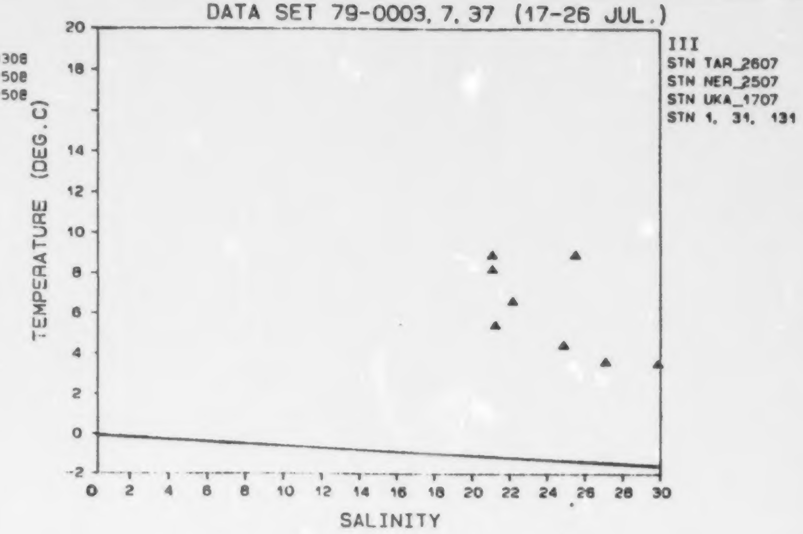

DATA SET 78-0001 (2-6 SEPT.)
TEMPERATURE (DEG.C)
20
18
16
14
12
10
8
6
4
2
0
-2
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
FREEZING TEMP.
I
STN 4/24
III
STN 10/2, 2/15, 5/6
STN 1, 27, 33, 38 B


DATA SET 78-0001 (16-24 SEPT.)
TEMPERATURE (DEG.C)
20
18
16
14
12
10
8
6
4
2
0
-2
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
SALINITY
FREEZING TEMP.
I
STN 4/30
III
STN 5/10, 2/19
B: STN 1, 102

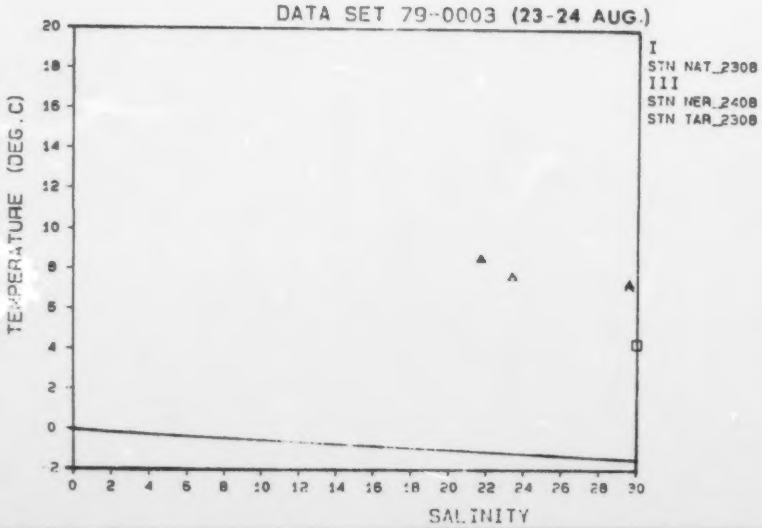

140
130
72
70
VII
VI
V
IV
III
II
I



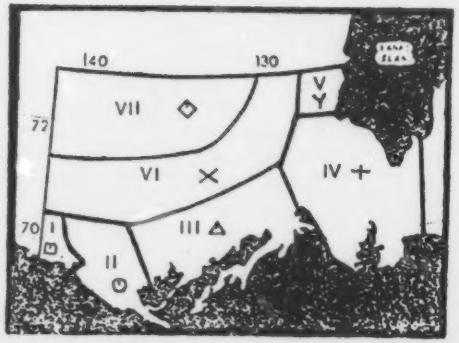
DATA SET 79-0003 (3-5 AUG.)



DATA SET 79-0003, 7, 37 (17-26 JUL.)

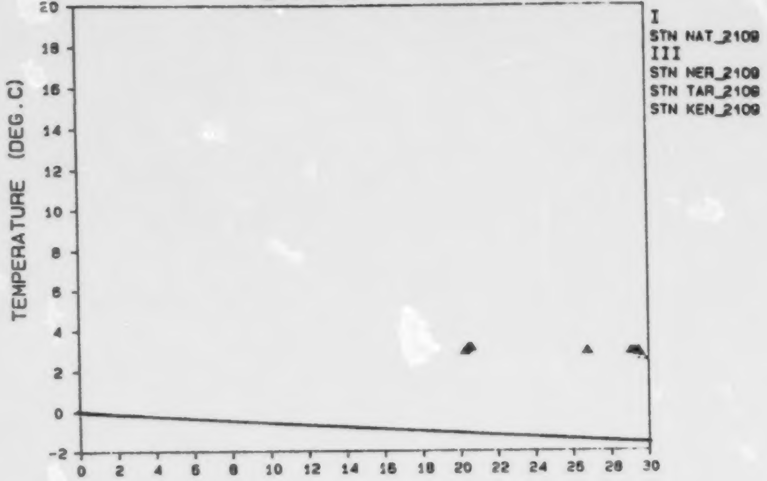


DATA SET 79-0003 (23-24 AUG.)

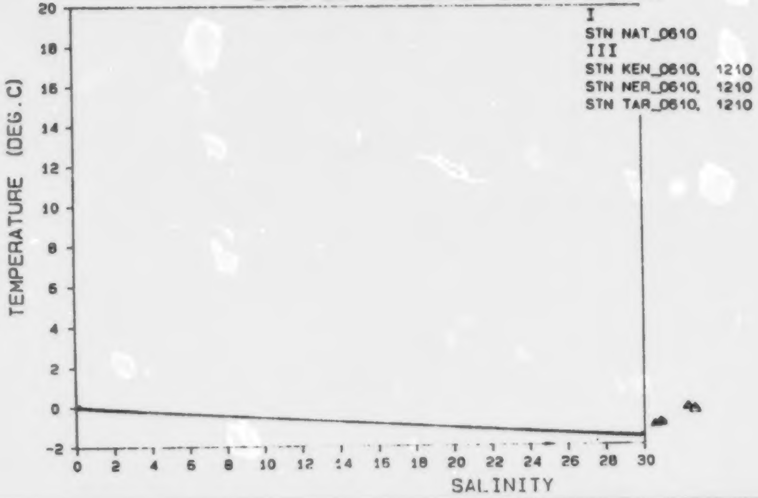


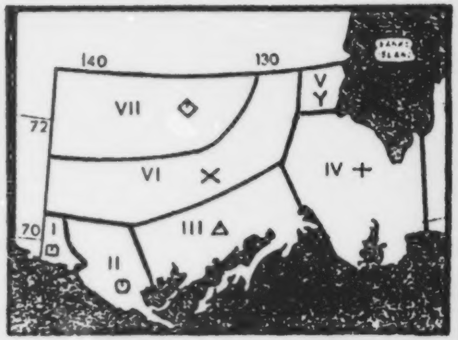
140
130
72
70
I
II
III
IV
V
VI
VII

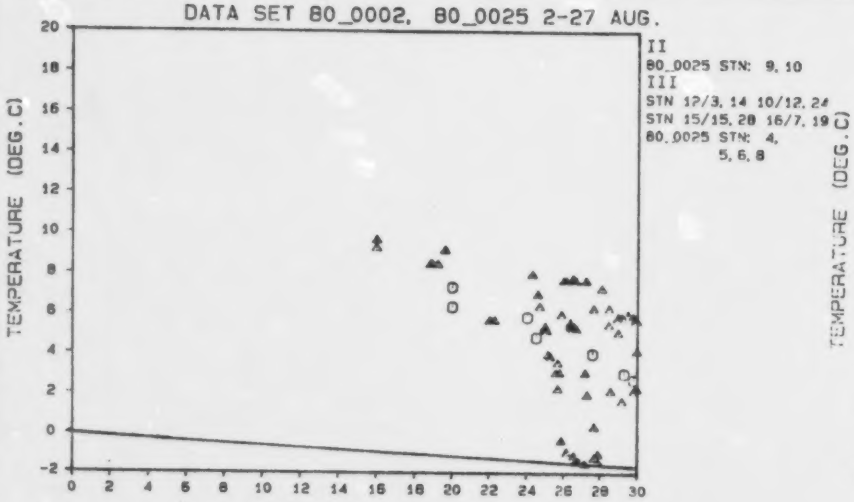
DATA SET 79-0003, 10 (21 SEPT.)

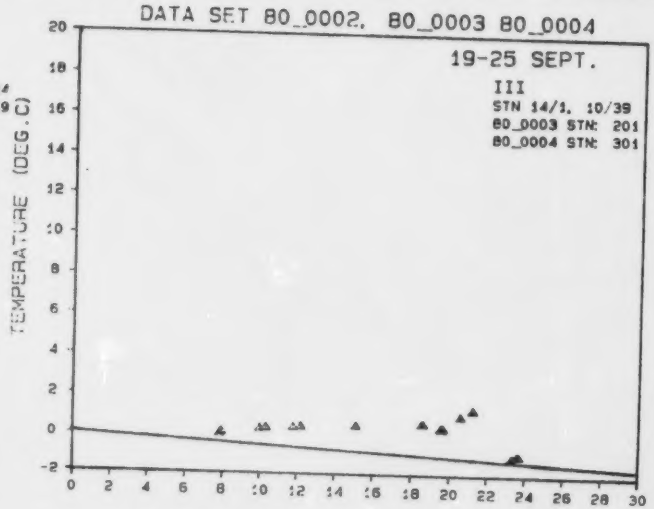


DATA SET 79-0003 A, B (6-12 OCT.)

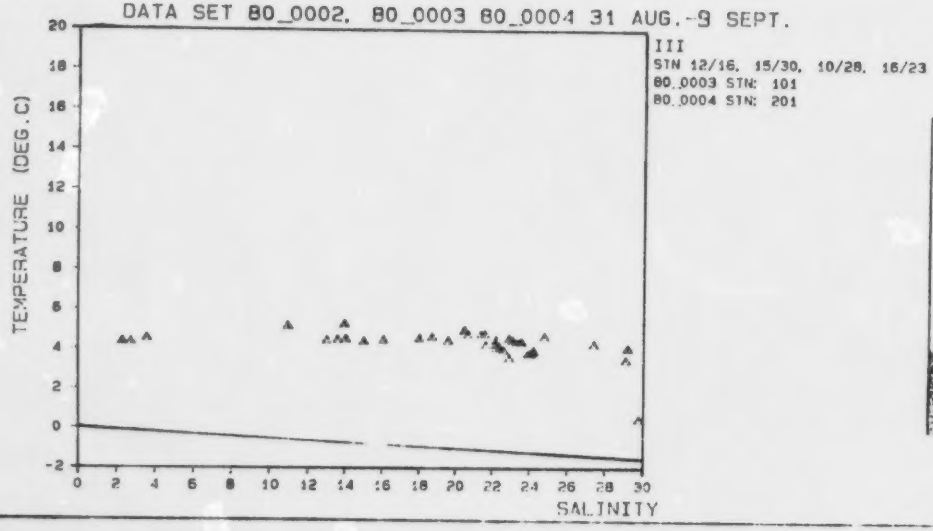


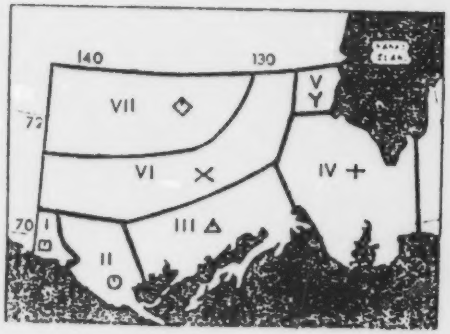

140
130
72
70
VII
VI
V
IV
III
II
I

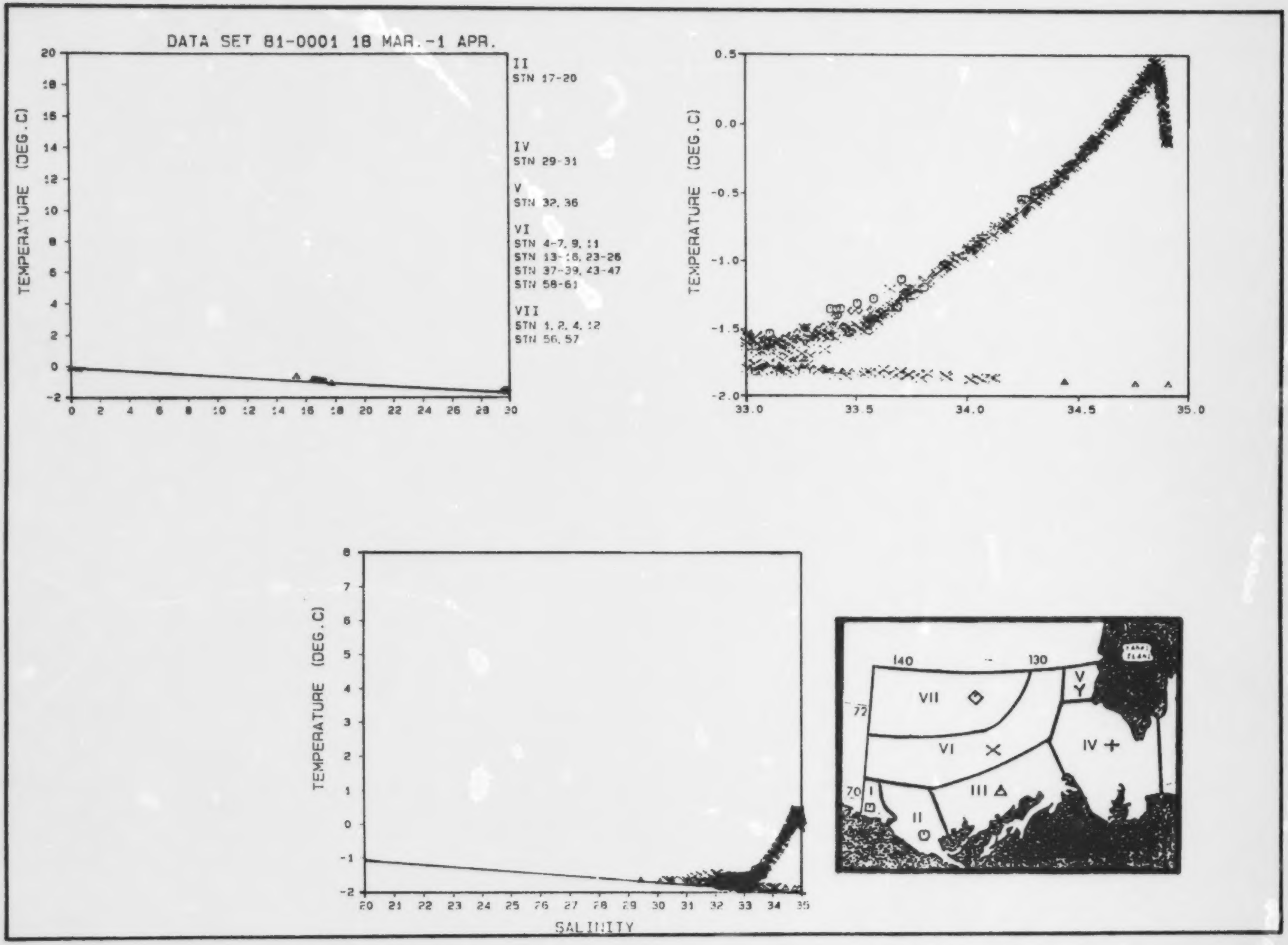

DATA SET 80_0002, 80_0025 2-27 AUG.


DATA SET 80_0002, 80_0003 80_0004

19-25 SEPT.


DATA SET 80_0002, 80_0003 80_0004 31 AUG.-9 SEPT.

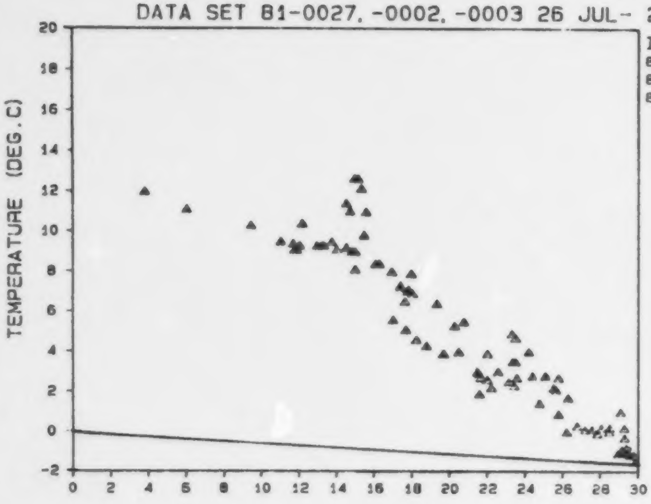

140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II
I

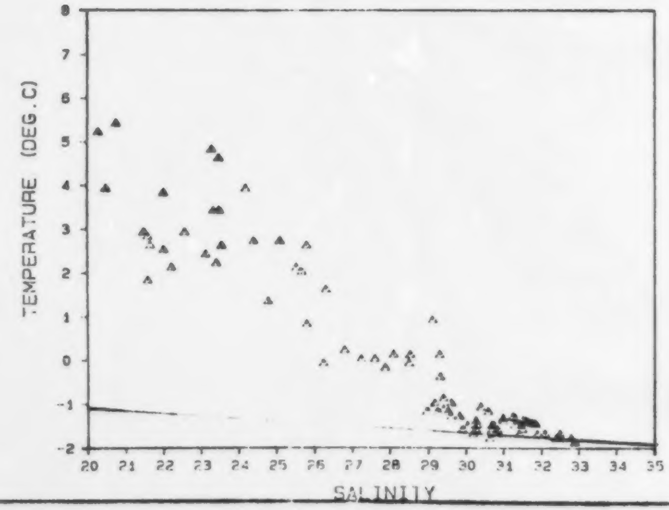


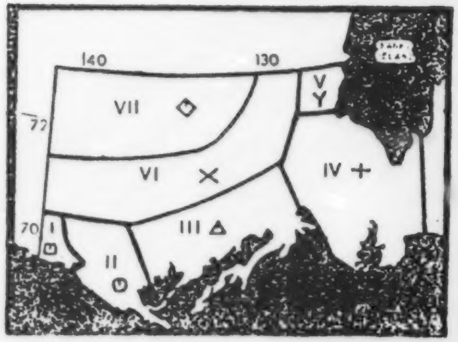
DATA SET 81-0001 18 MAR.-1 APR.

DATA SET 81-0027, -0002, -0003 26 JUL- 25 AUG.

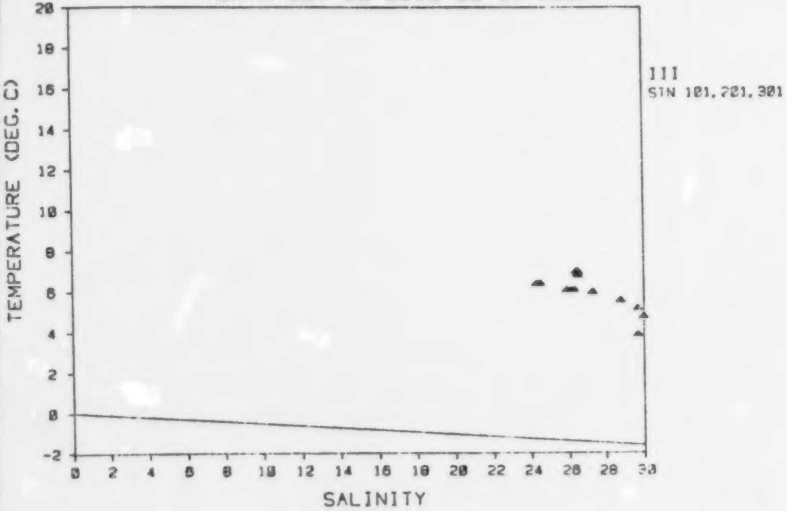
III
81-0027: STN 101, 103-108
81-0002: STN 121, 201, 301
81-0003: STN 3C

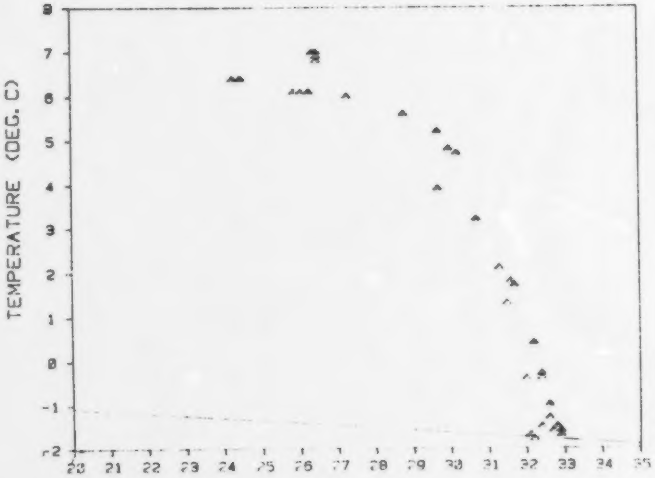


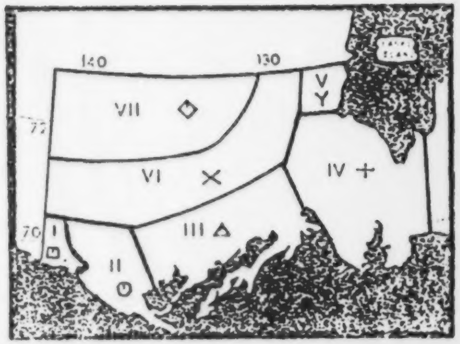



140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II
I

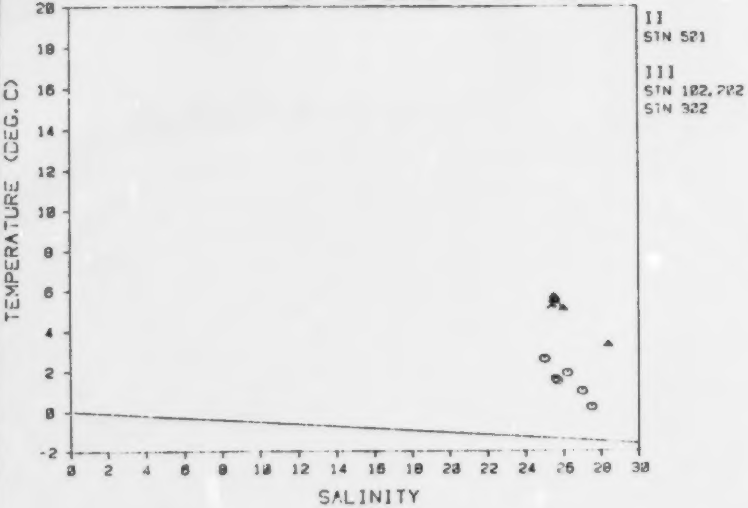
DATA SET 82-0118 30-31 JUL.

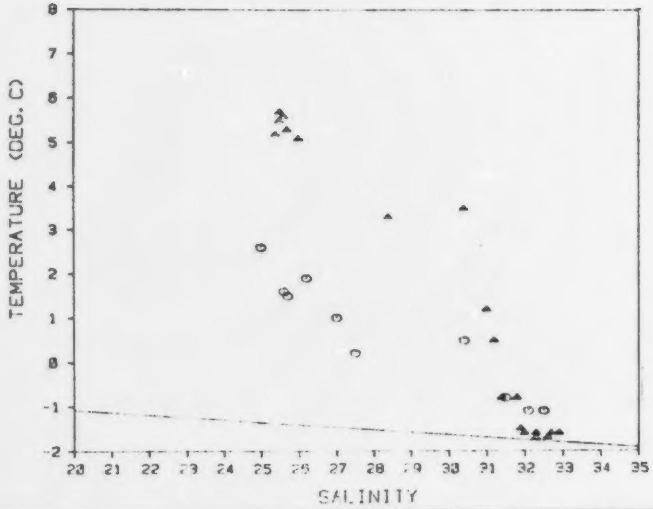


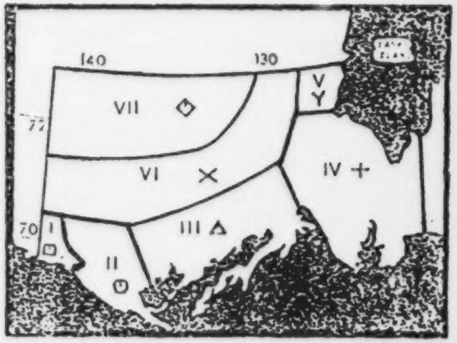



140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II
I

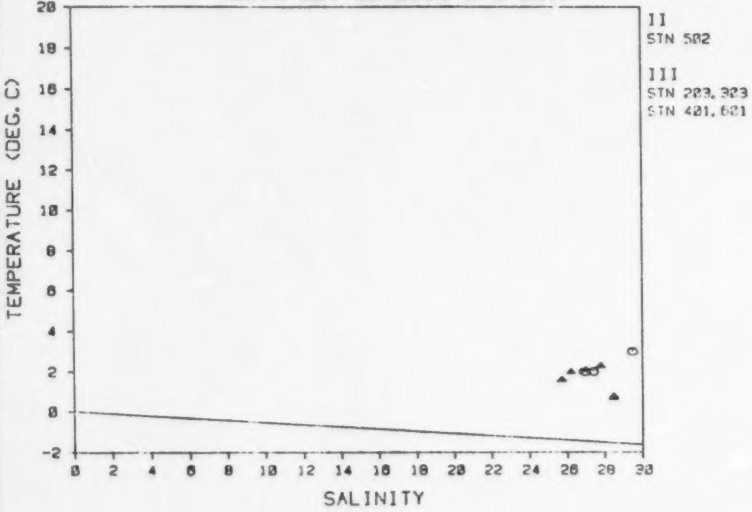
DATA SET 82-0118 27-31 AUG.

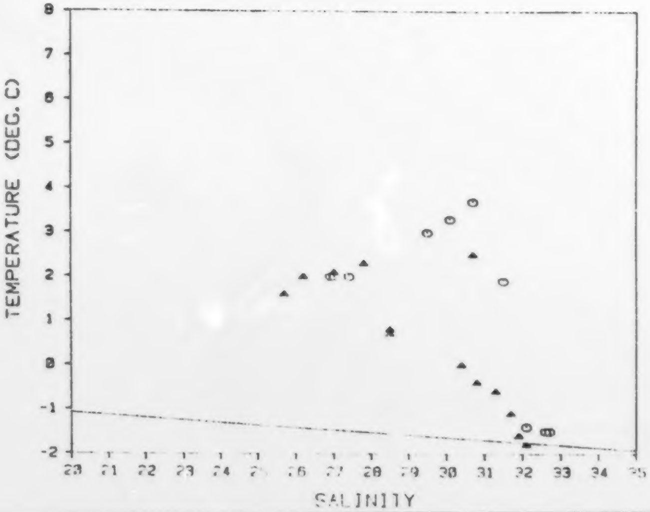


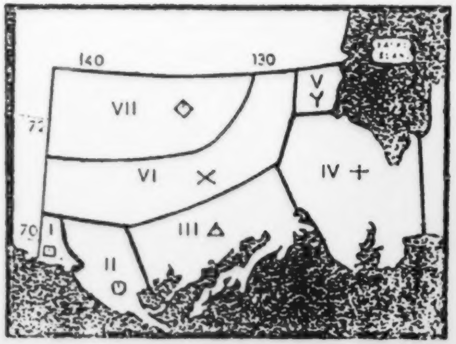



140
130
72
70
I
II
III
IV
V
VI
VII

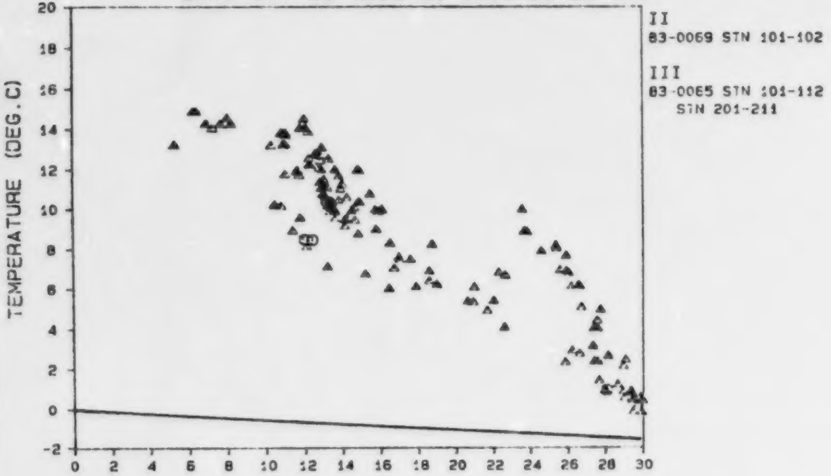
DATA SET 82-0118 2-5 OCT.





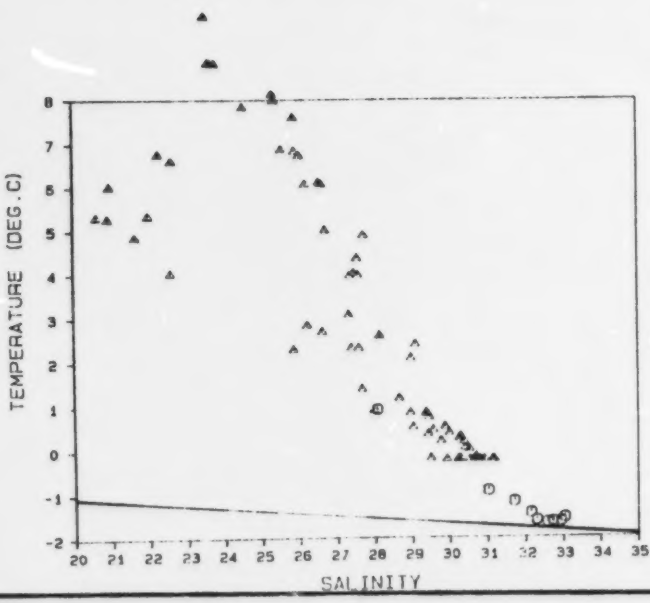

140
130
72
70
I
II
III
IV
V
VI
VII

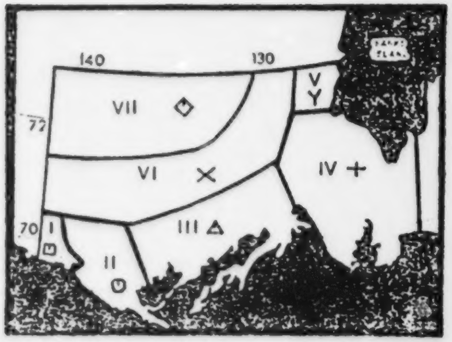
DATA SET 83-0065 83-0069 20-28 JUL.

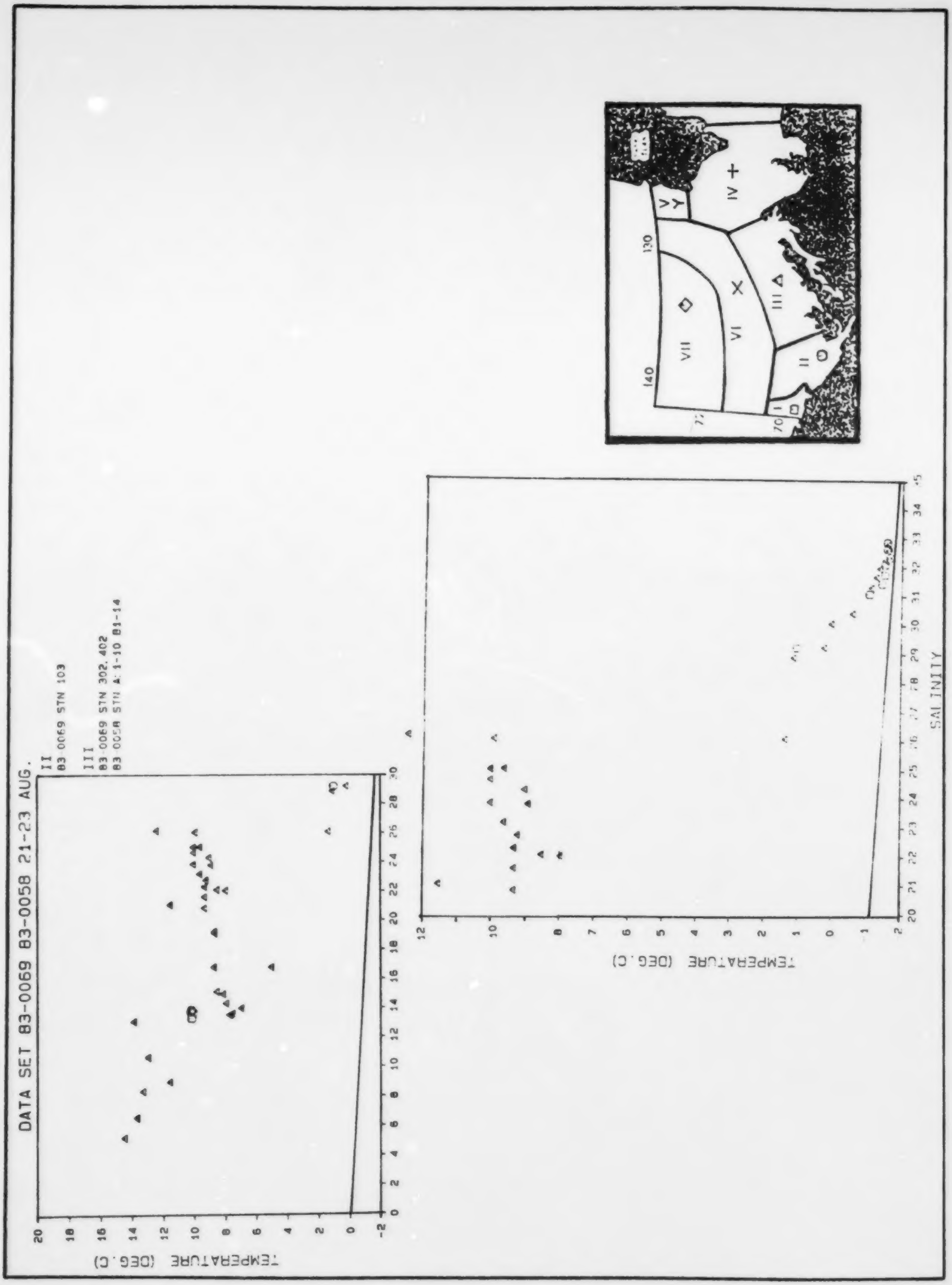


II
83-0069 STN 101-102

III
83-0065 STN 101-112
STN 201-211

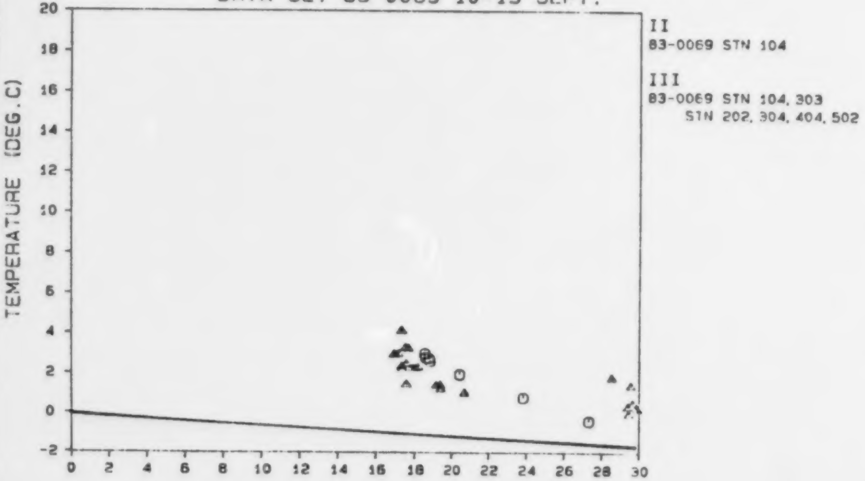


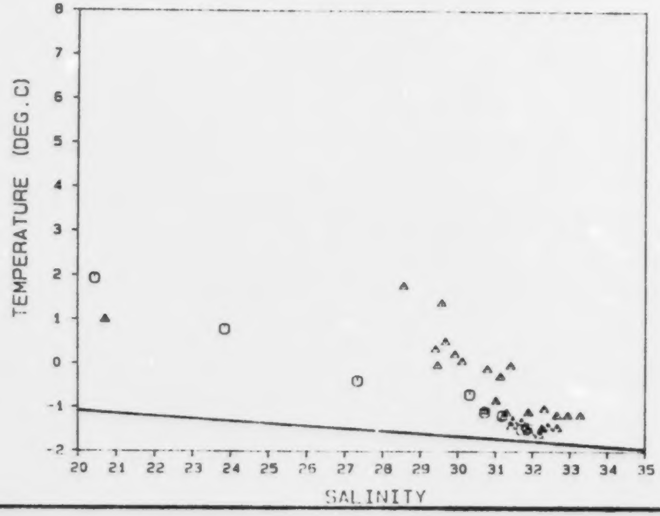

140
130
72
70
VII
VI
V
IV
III
II
I

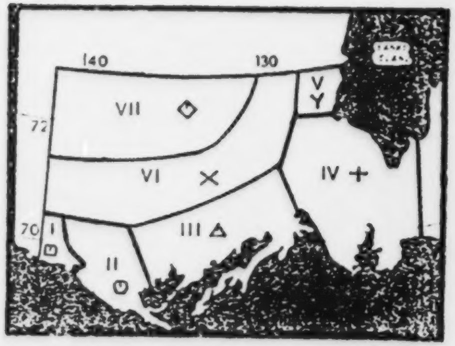


DATA SET 83-0069 83-0058 21-23 AUG.

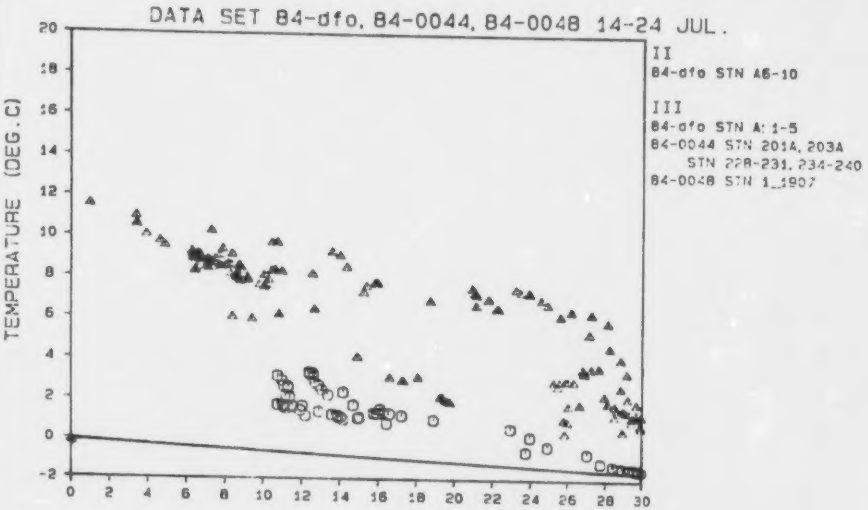
DATA SET 83-0069 10-19 SEPT.

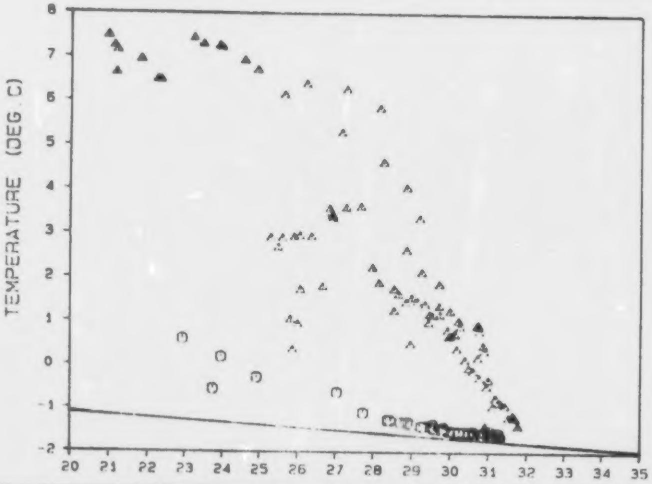


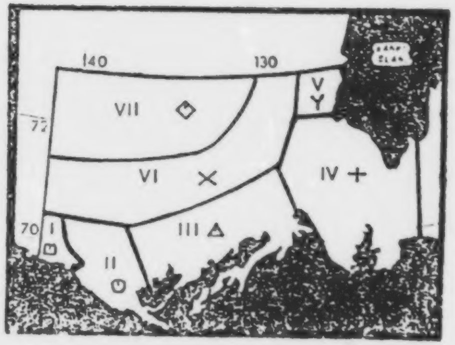



140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II
I

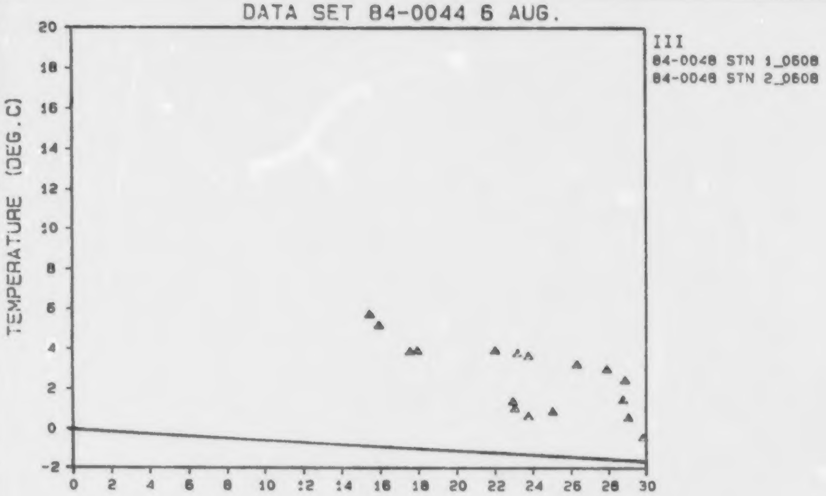
DATA SET 84-dfo, 84-0044, 84-0048 14-24 JUL.

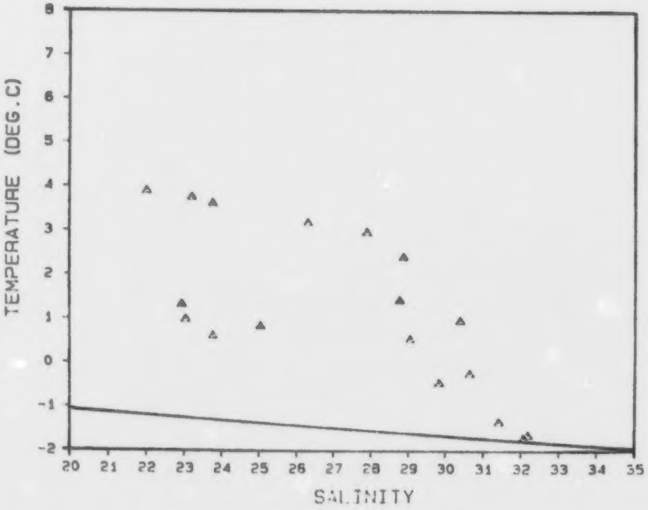


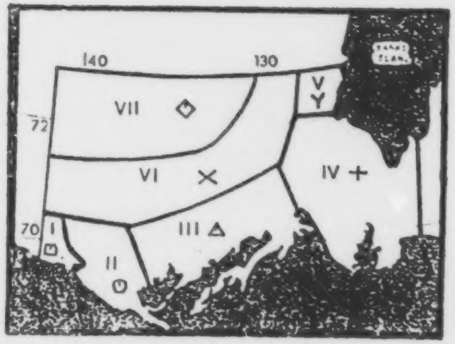



140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II
I

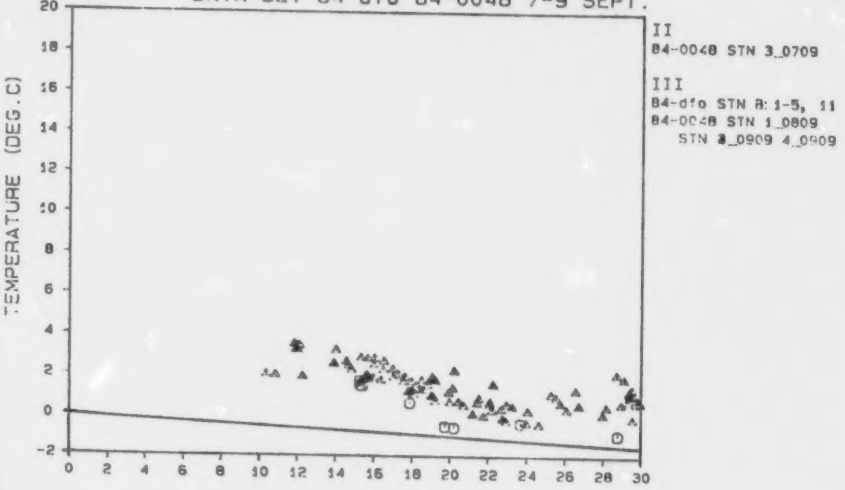
DATA SET 84-0044 6 AUG.

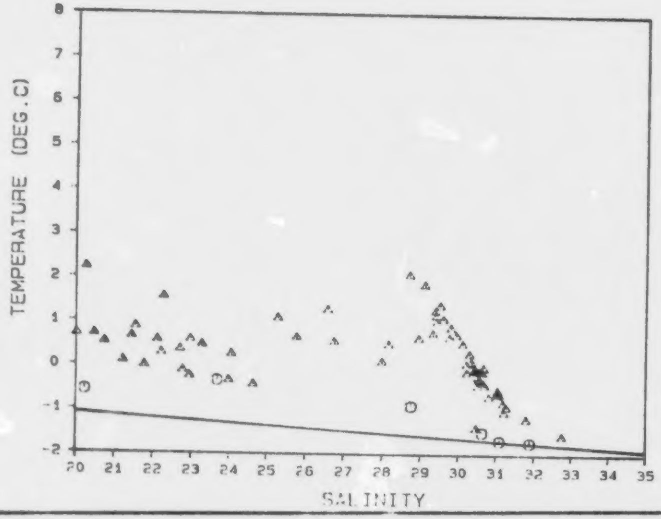


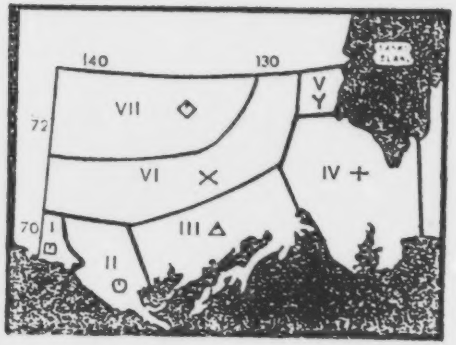


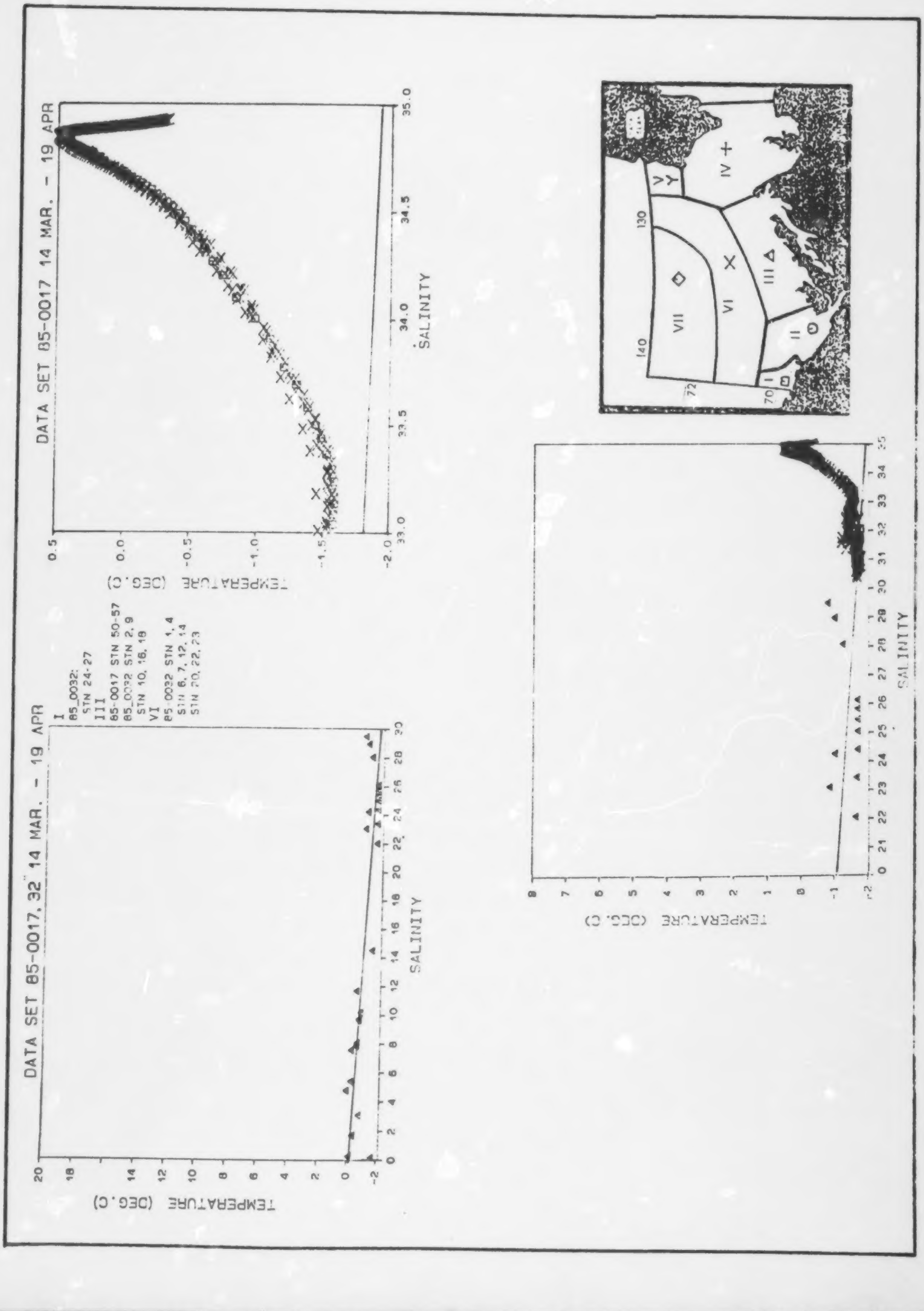

140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II ○
I □

DATA SET 84-dfo 84-004B 7-9 SEPT.

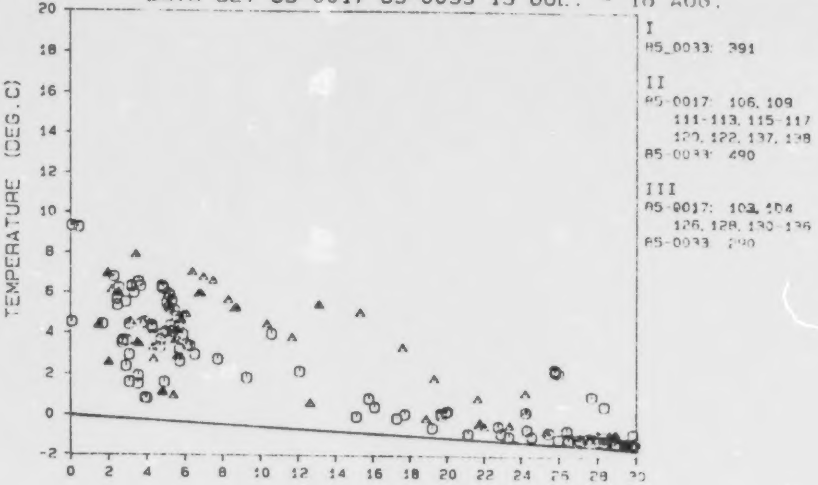


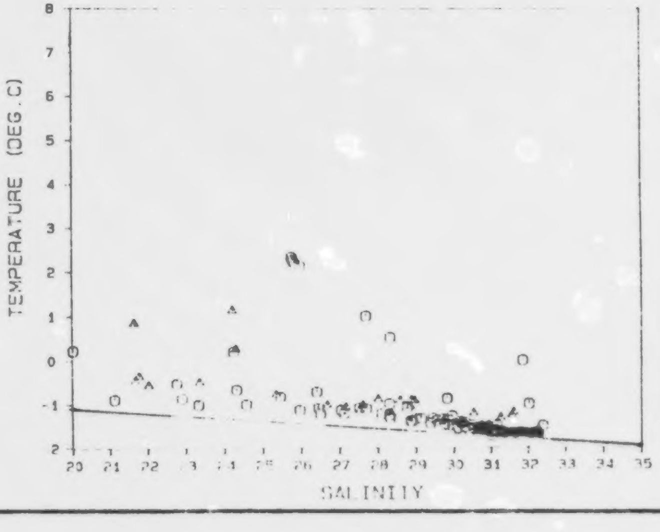


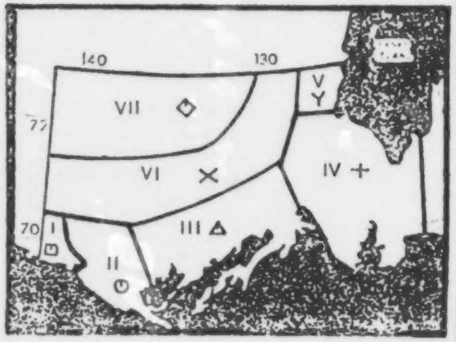

140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II ⊙
I ▣


DATA SET 85-0017, 32 14 MAR. - 19 APR
TEMPERATURE (DEG.C)
SALINITY
20
18
14
12
10
8
6
4
2
0
-2
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
I
85_0032:
STN 24-27
III
85-0017 STN 50-57
85_0032 STN 2,9
STN 10, 16, 18
VI
85-0032 STN 1,4
STN 6, 7, 12, 14
STN 20, 22, 23
DATA SET 85-0017 14 MAR. - 19 APR
TEMPERATURE (DEG.C)
SALINITY
0.5
0.0
-0.5
-1.0
-1.5
-2.0
33.0
33.5
34.0
34.5
35.0
TEMPERATURE (DEG.C)
SALINITY
8
7
6
5
4
3
2
1
0
-1
-2
0
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
I
II
III
IV
V
VI
VII
70
72
130
140

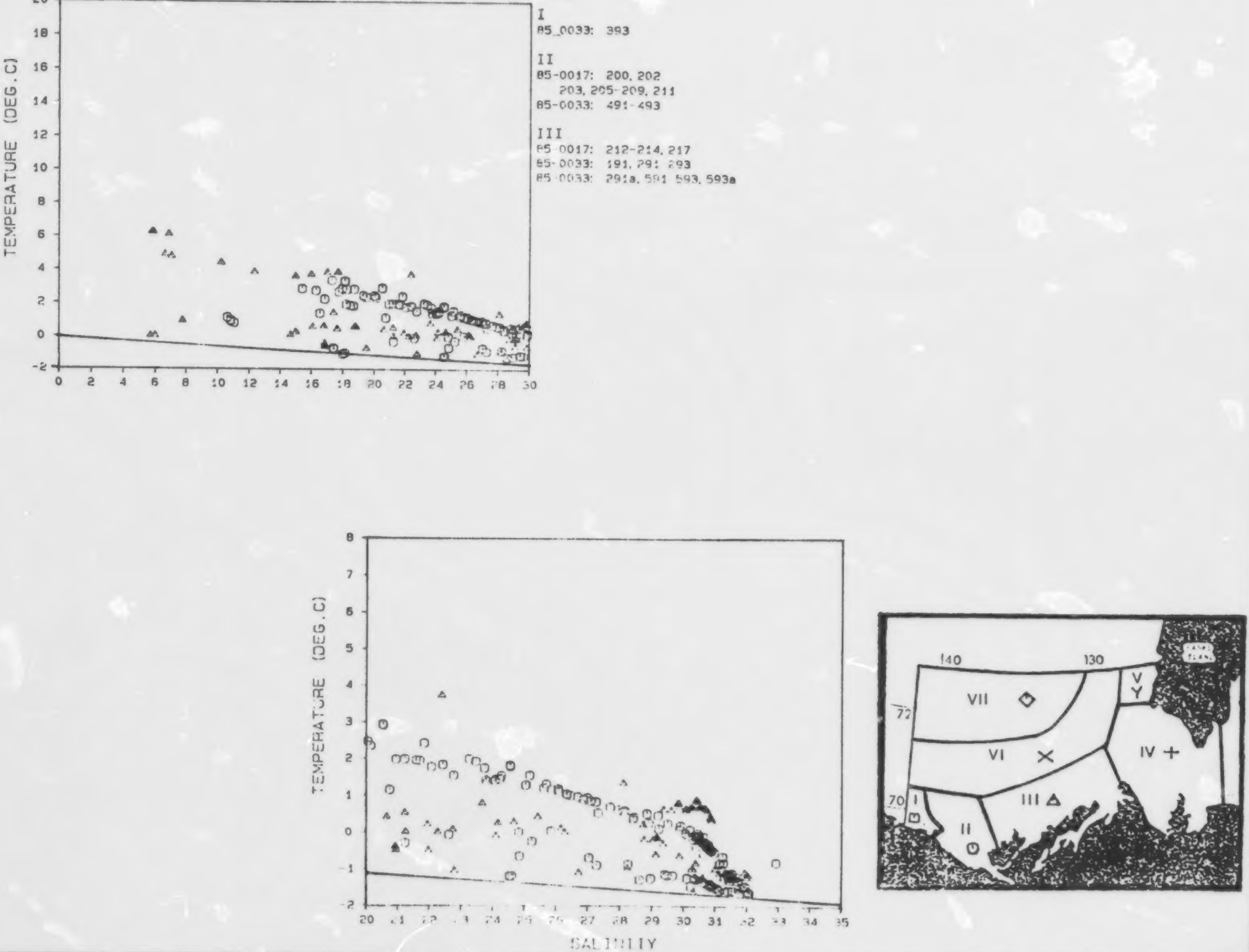
DATA SET 85-0017 85-0033 15 JUL. - 16 AUG.

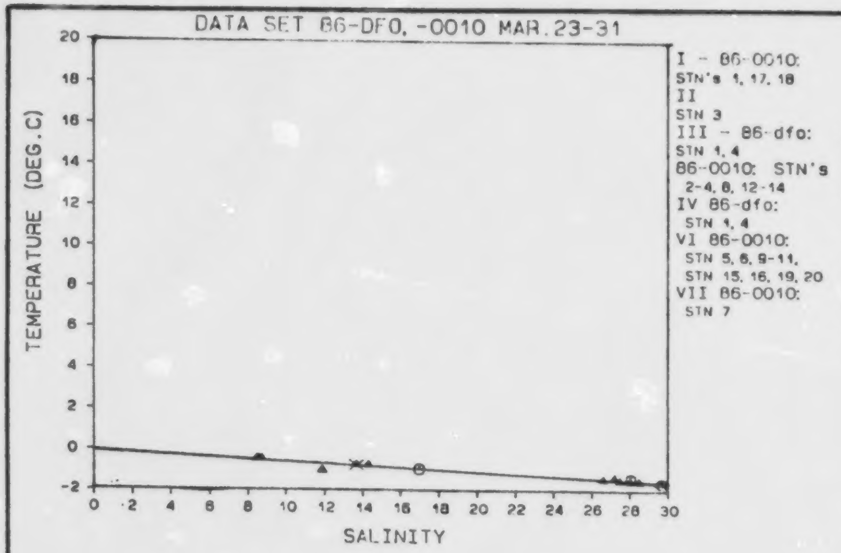


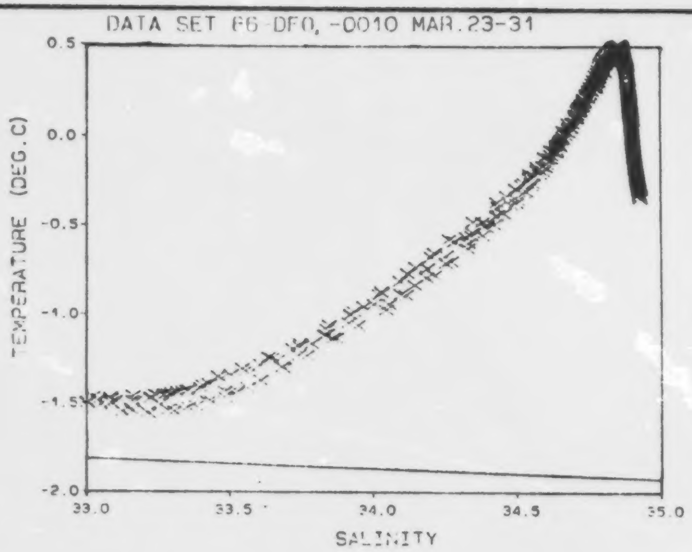


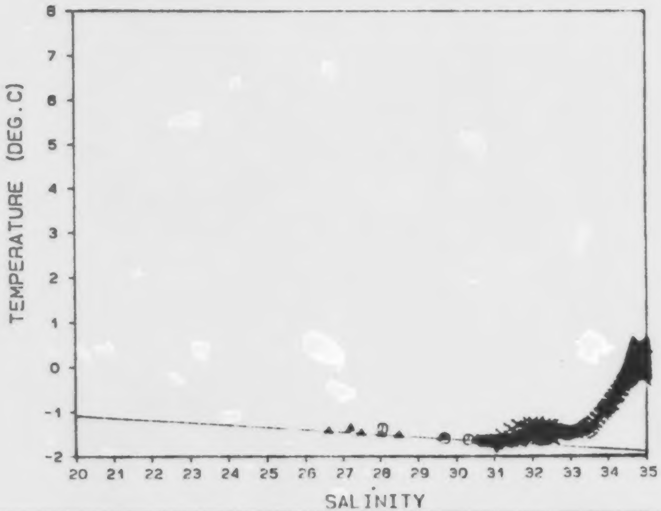

140
130
72
70
VII ◇
VI ×
V
Y
IV +
III △
II
I

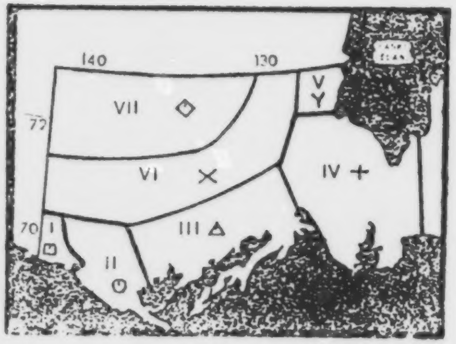
DATA SET 85-0017 85-0033 (24 AUG - 13 SEPT.)



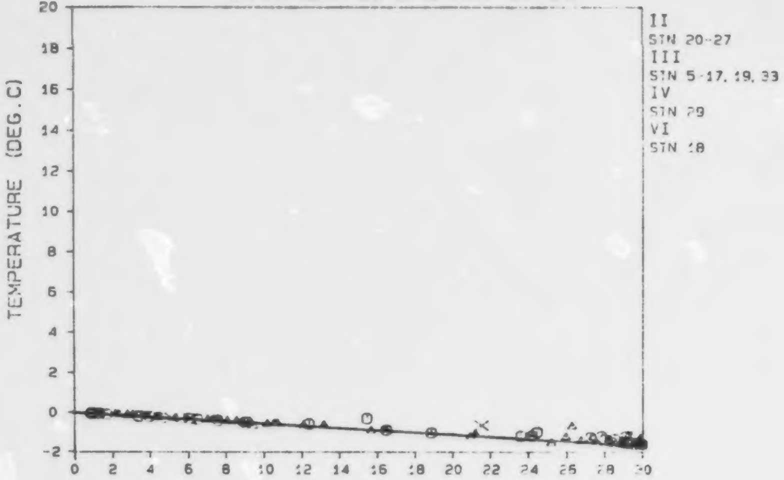

DATA SET 86-DFO, -0010 MAR.23-31

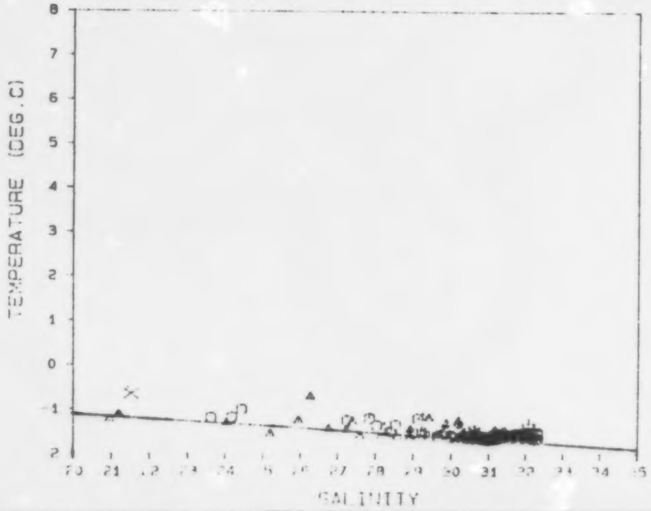

DATA SET 86-DFO, -0010 MAR.23-31

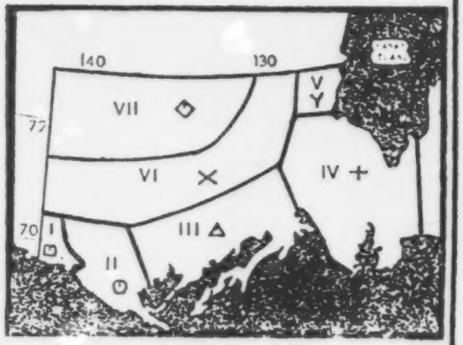



140
130
72
70
VII
VI
V
IV
III
II
I

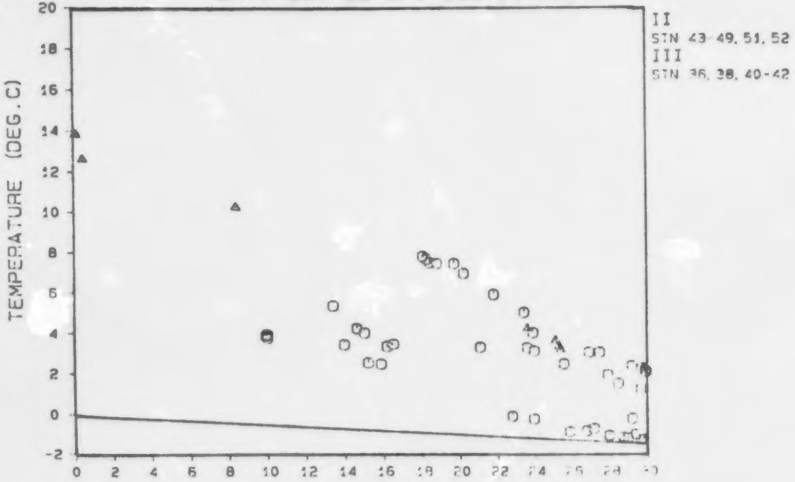
DATA SET 86-DFO MAY 17-22

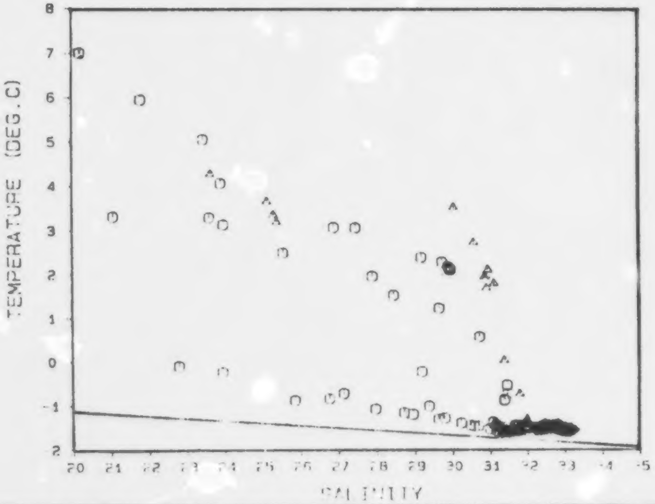


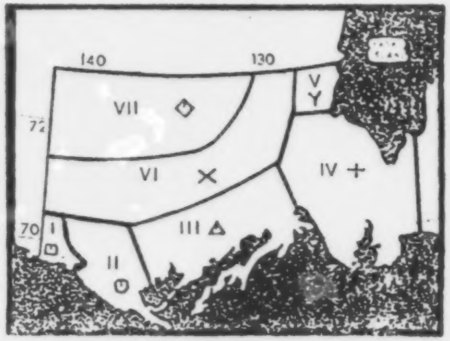


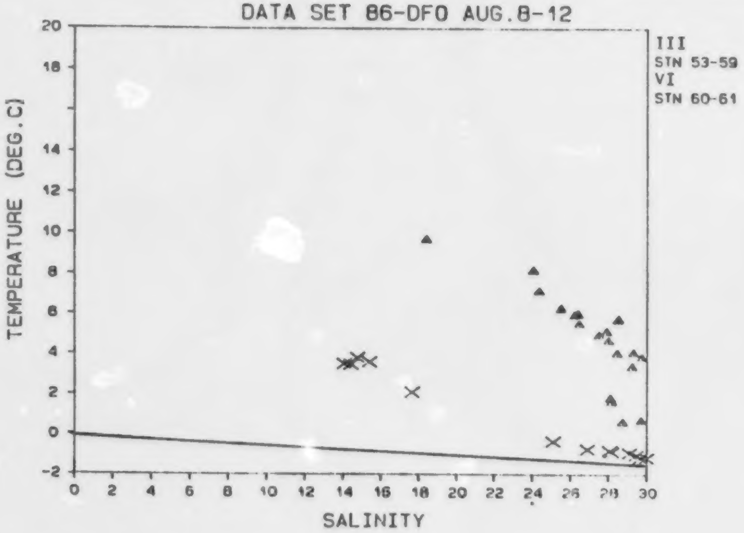

140
130
72
70
I
II
III
IV
V
VI
VII

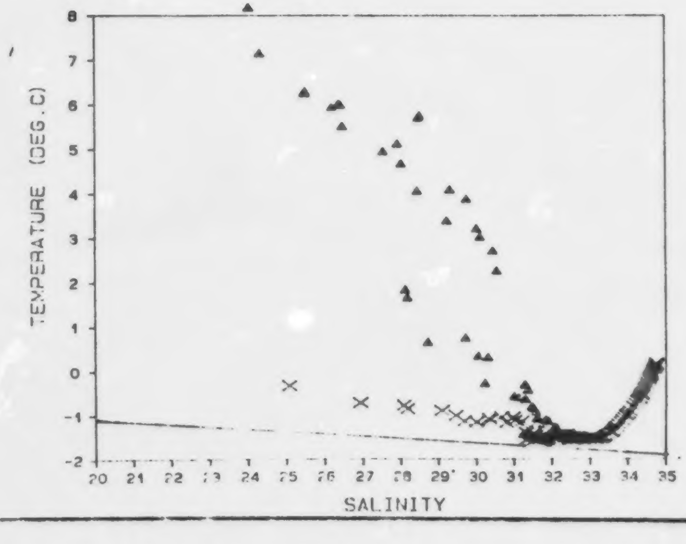
DATA SET 86-DFO JUL.23-AUG.3

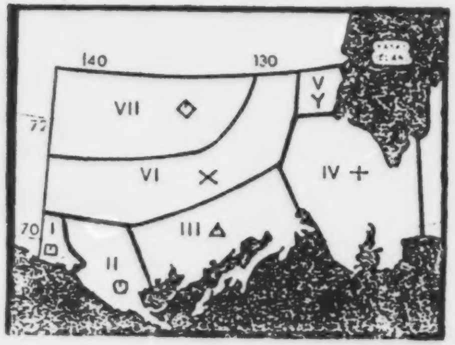


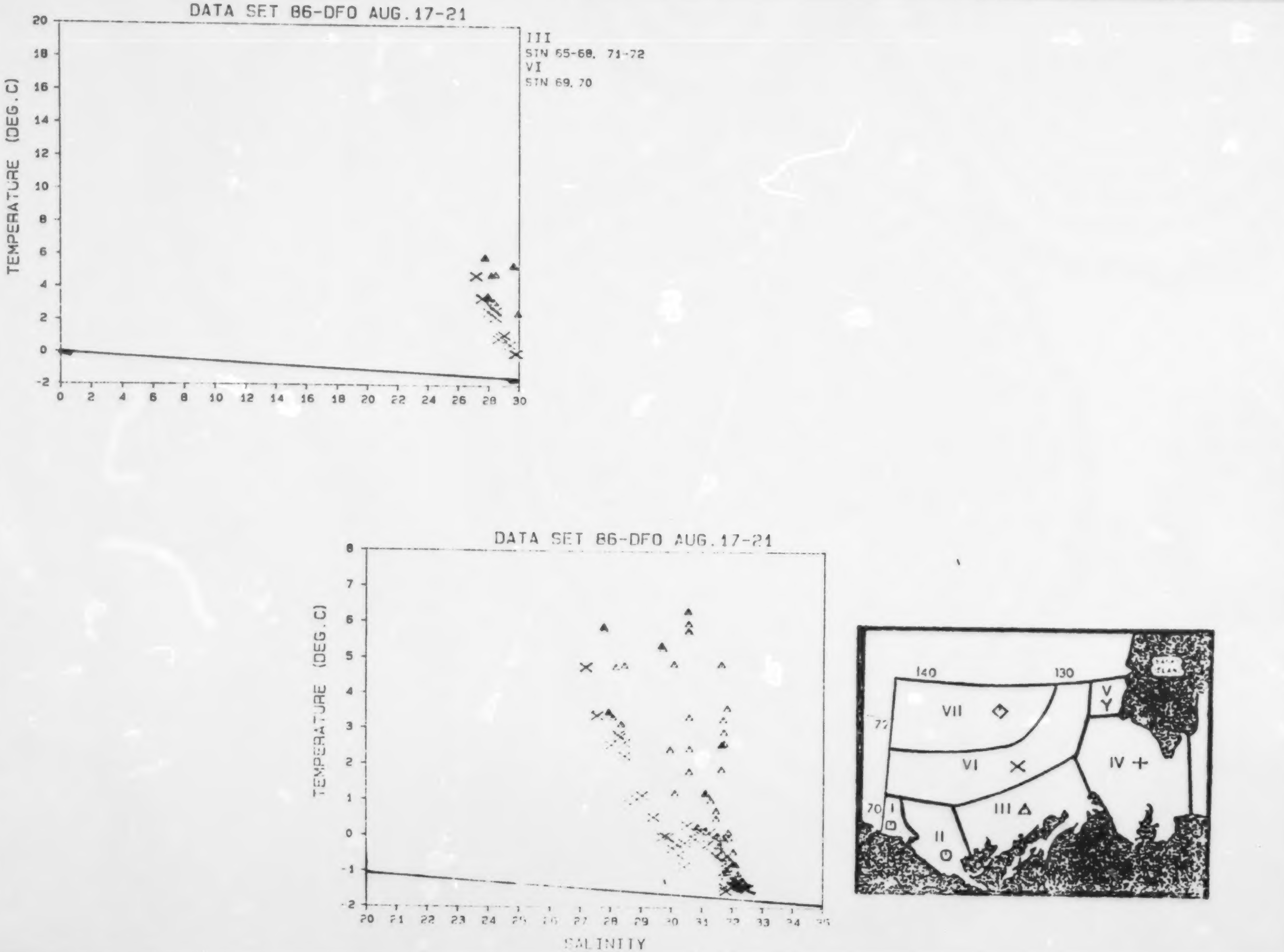



140
130
72
70
I
II
III
IV
V
VI
VII

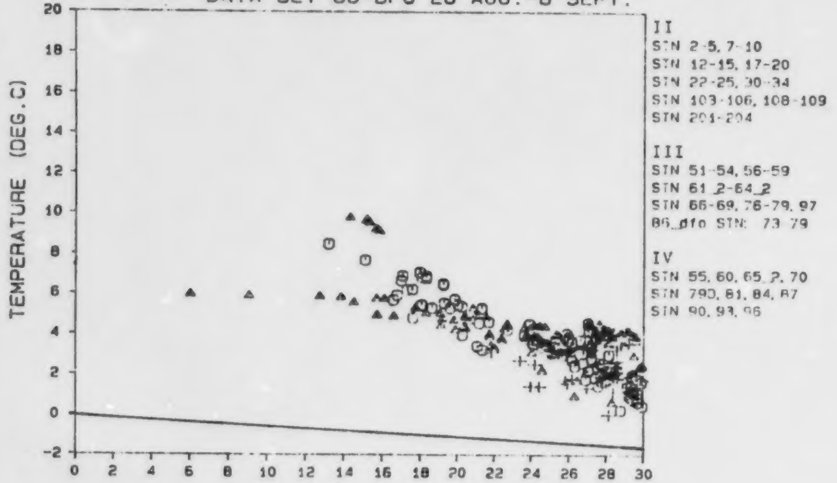

DATA SET 86-DFO AUG.8-12
III
STN 53-59
VI
STN 60-61
TEMPERATURE (DEG.C)
20
18
14
12
10
8
6
4
2
0
-2
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
SALINITY

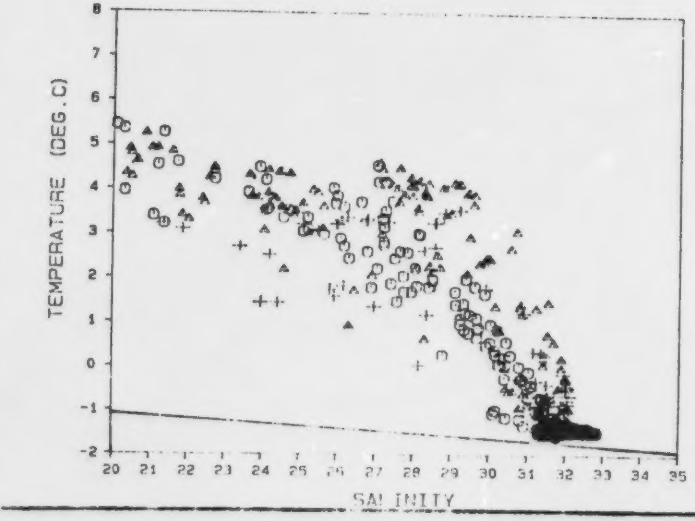

TEMPERATURE (DEG.C)
8
7
6
5
4
3
2
1
0
-1
-2
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
SALINITY

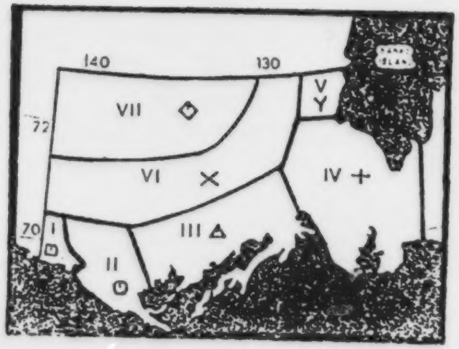

140
130
VII
VI
V
IV
III
II
I
70
72

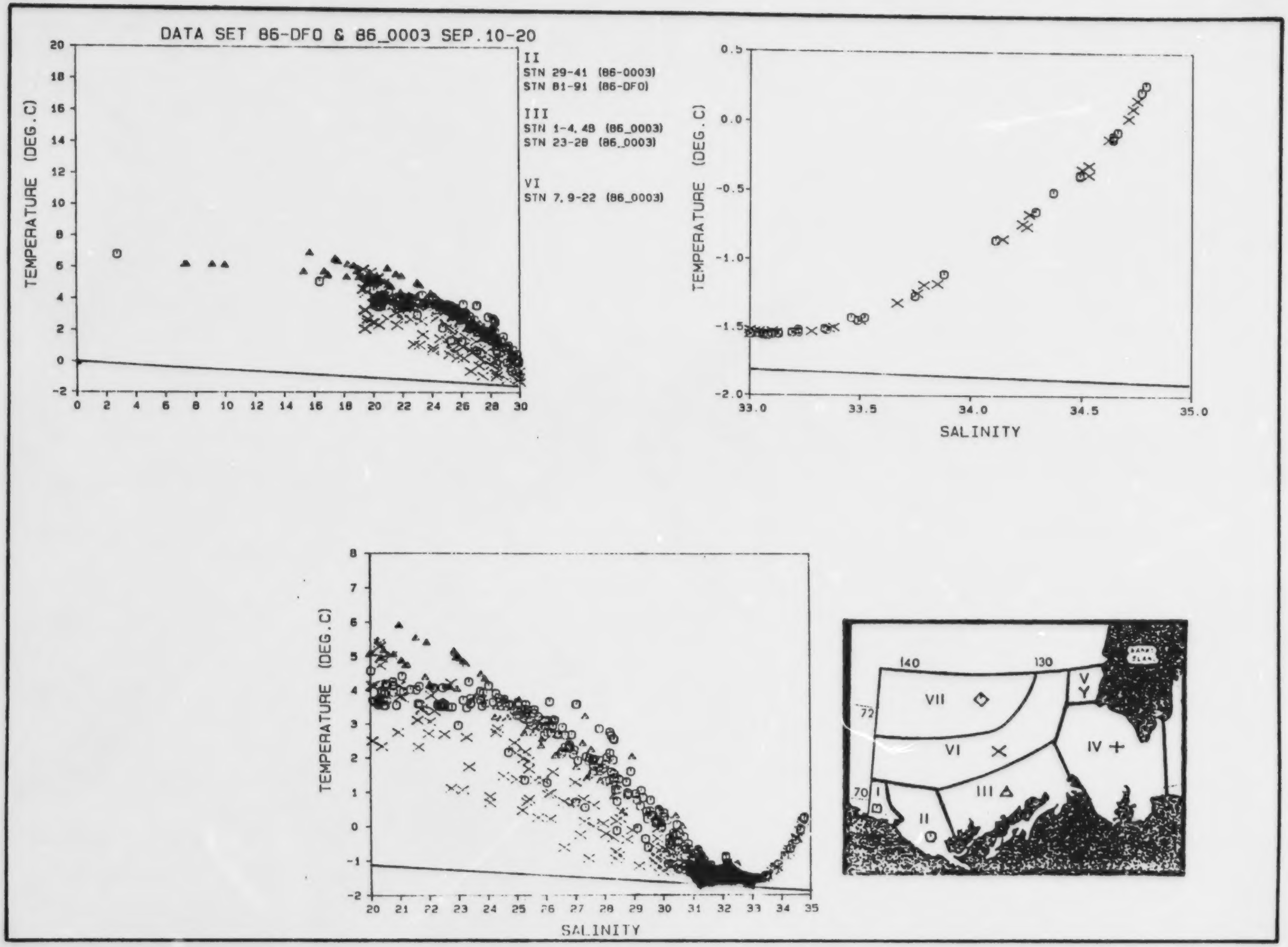

DATA SET 86-DFO AUG.17-21
TEMPERATURE (DEG.C)
20
18
16
14
12
10
8
6
4
2
0
-2
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
III
STN 65-68, 71-72
VI
STN 69,70
DATA SET 86-DFO AUG.17-21
TEMPERATURE (DEG.C)
8
7
6
5
4
3
2
1
0
-1
-2
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
SALINITY
140
130
72
70
I
II
III
IV
V
VI
VII

86-0004
DATA SET 86-DFO 28 AUG.-8 SEPT.



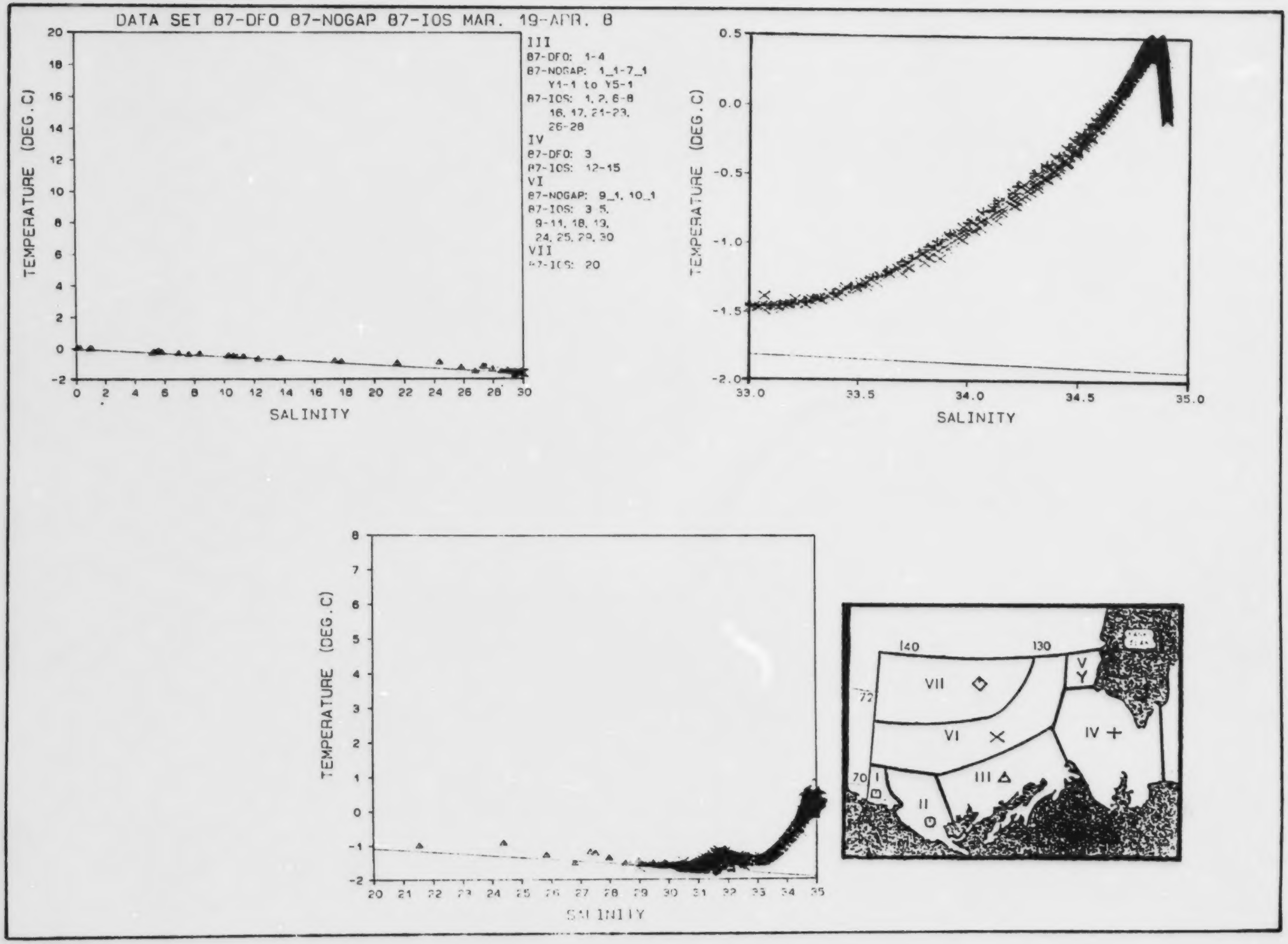


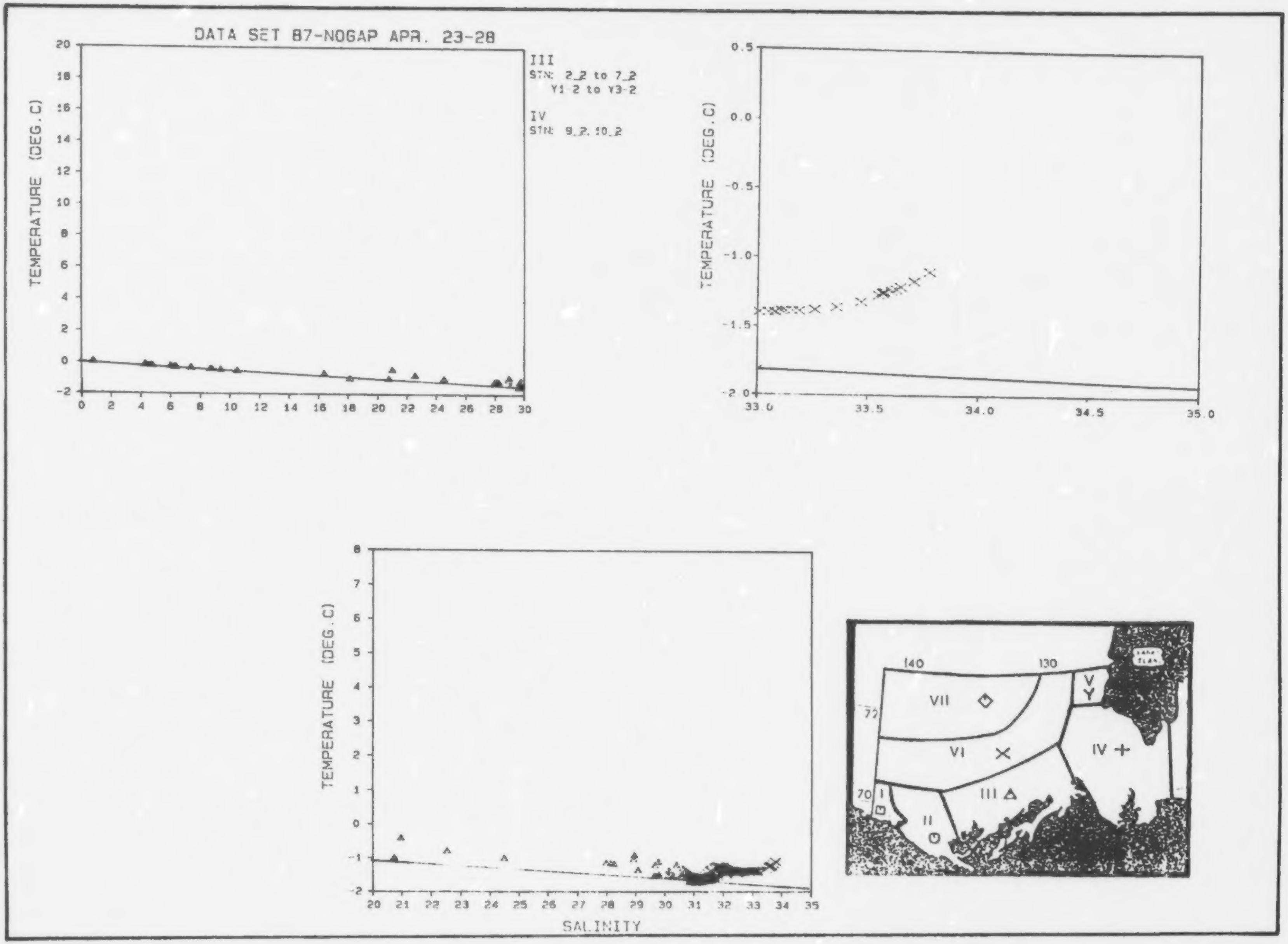

140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II ○
I ▢



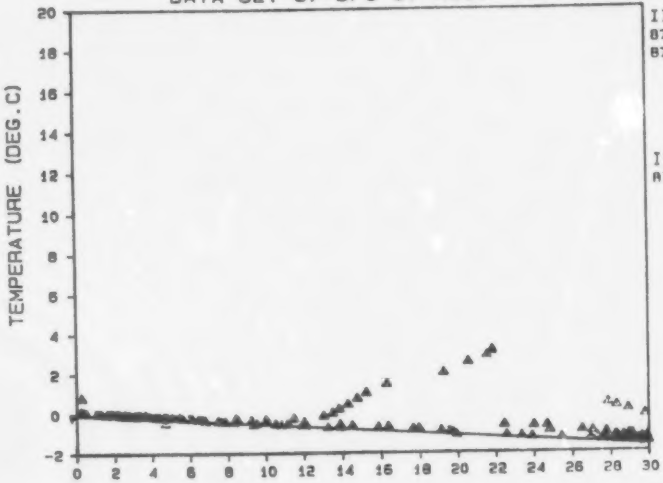
DATA SET 86-DFO & 86_0003 SEP.10-20

DATA SET 87-DFO 87-NOGAP 87-IOS MAR. 19-APR. 8



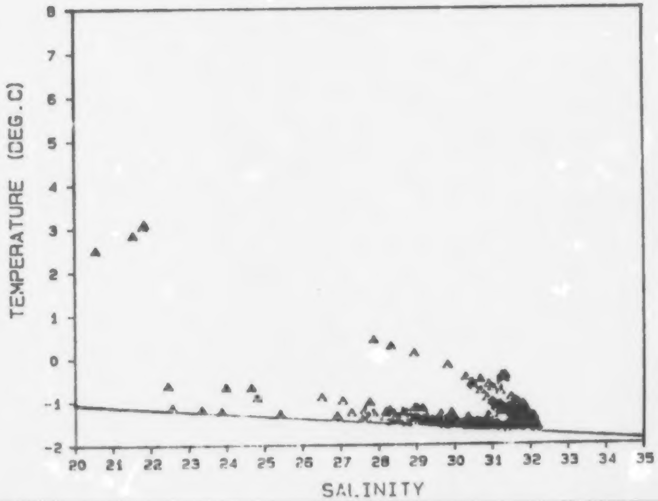

DATA SET 87-NOGAP APR. 23-28
III
STN: 2_2 to 7_2
Y1-2 to Y3-2
IV
STN: 9_2,10_2
TEMPERATURE (DEG.C)
20
18
16
14
12
10
8
6
4
2
0
-2
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
TEMPERATURE (DEG.C)
0.5
0.0
-0.5
-1.0
-1.5
-2.0
33.0
33.5
34.0
34.5
35.0
TEMPERATURE (DEG.C)
8
7
6
5
4
3
2
1
0
-1
-2
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
SALINITY
140
130
72
70
VII ◇
VI ×
V Y
IV +
III △
II ʘ
I ⊡

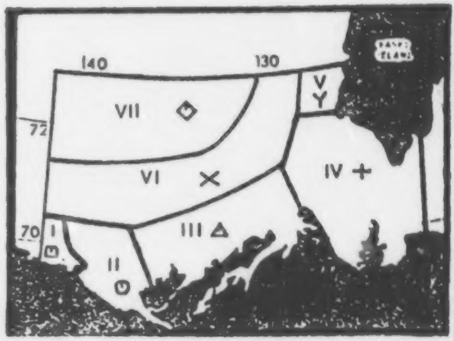
## DATA SET 87-DFO 87-NOGAP MAY 6-JUNE 4

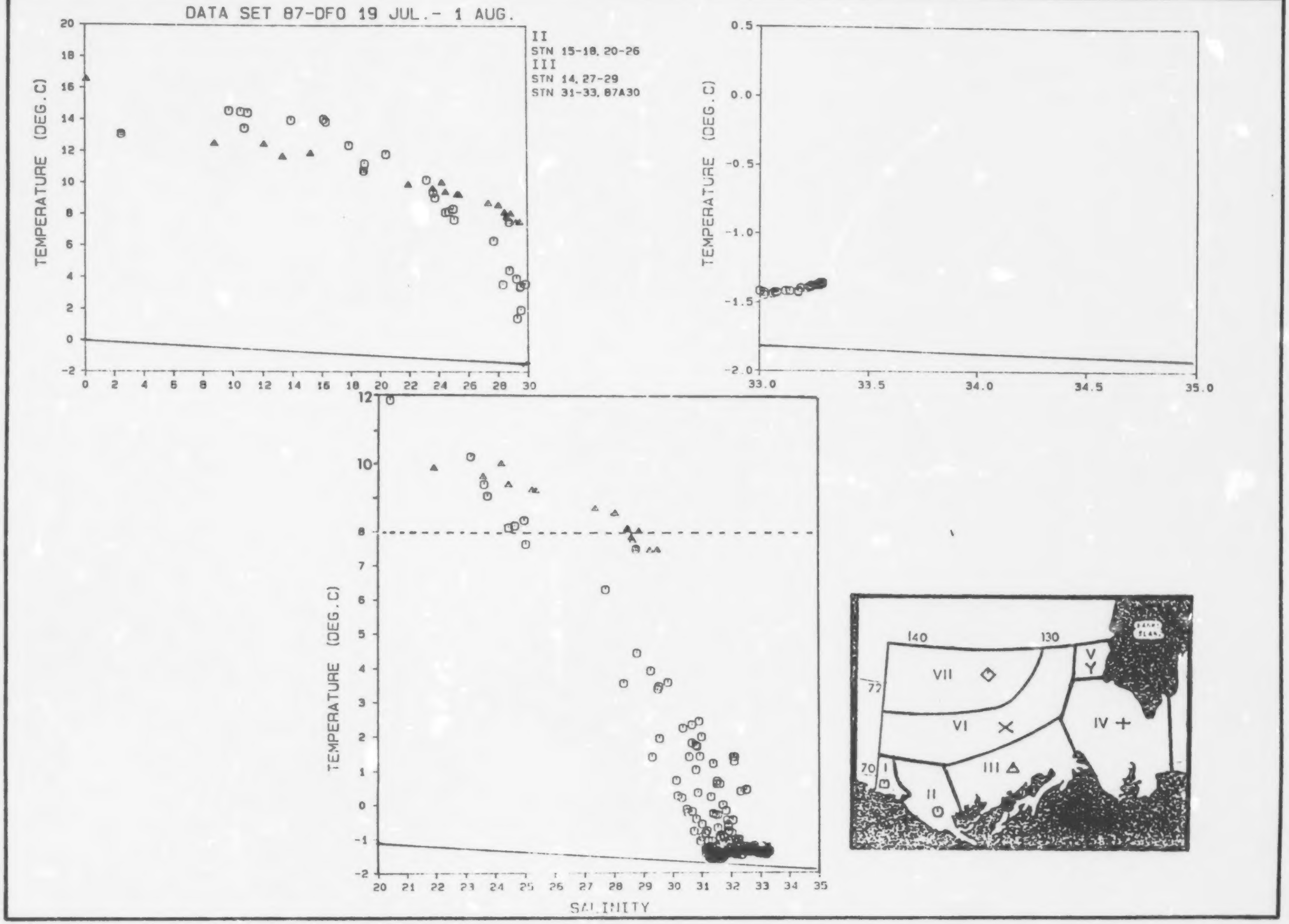


III
87-DFO: 6-7, 9-13
87-NOGAP: 2_3-4_3, 4A_3
5_3, X1_3-X5_3
2_4-6_4, 4A_4, 3A_4, MS1_
X1_4-X6_4, Y1_4-Y5_4
KT_4, IM1_4-IM6_4, 0_4

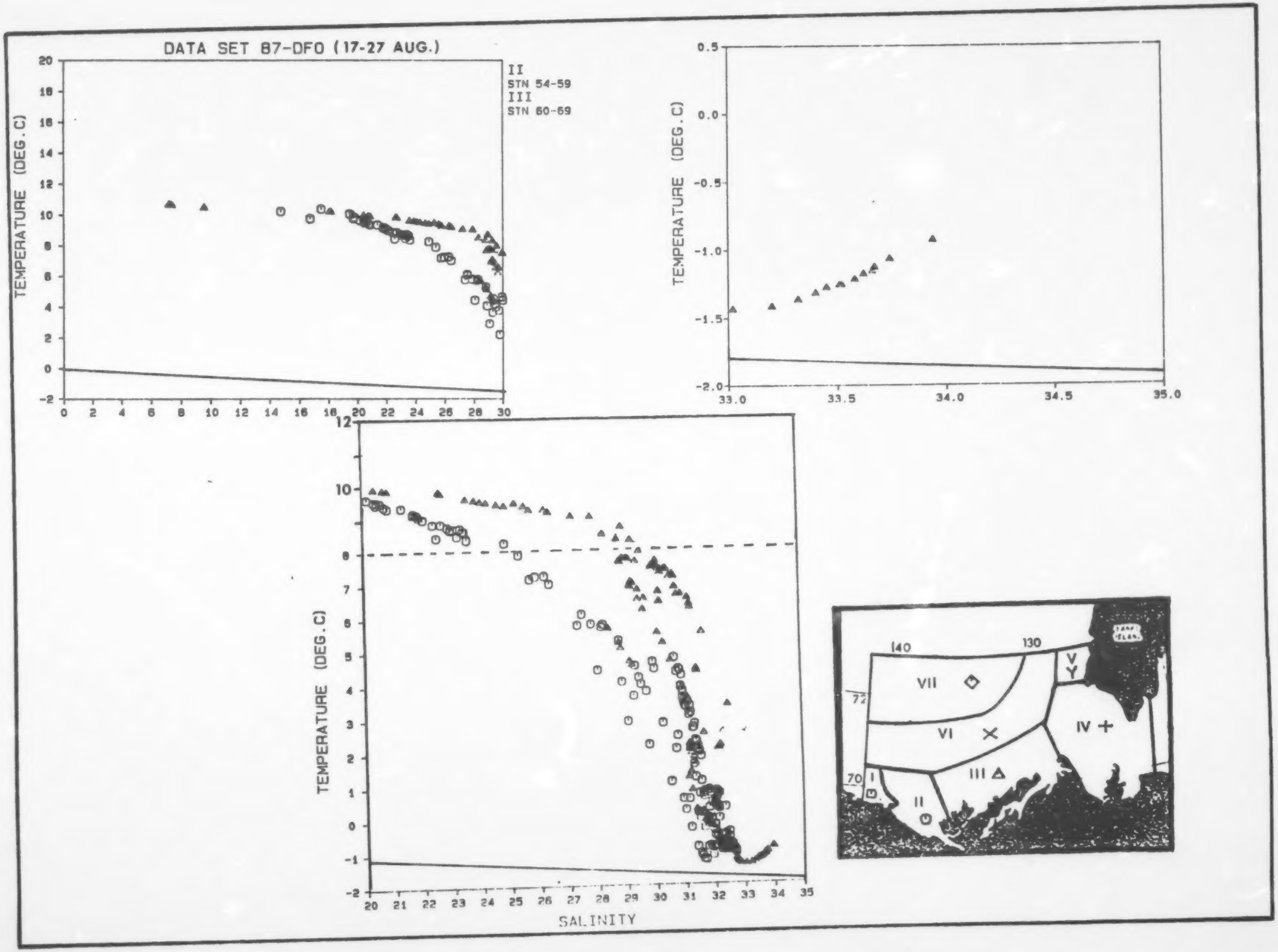
IV
87-DFO: 8




140
130
72
70
I
II
III
IV
V
VI
VII

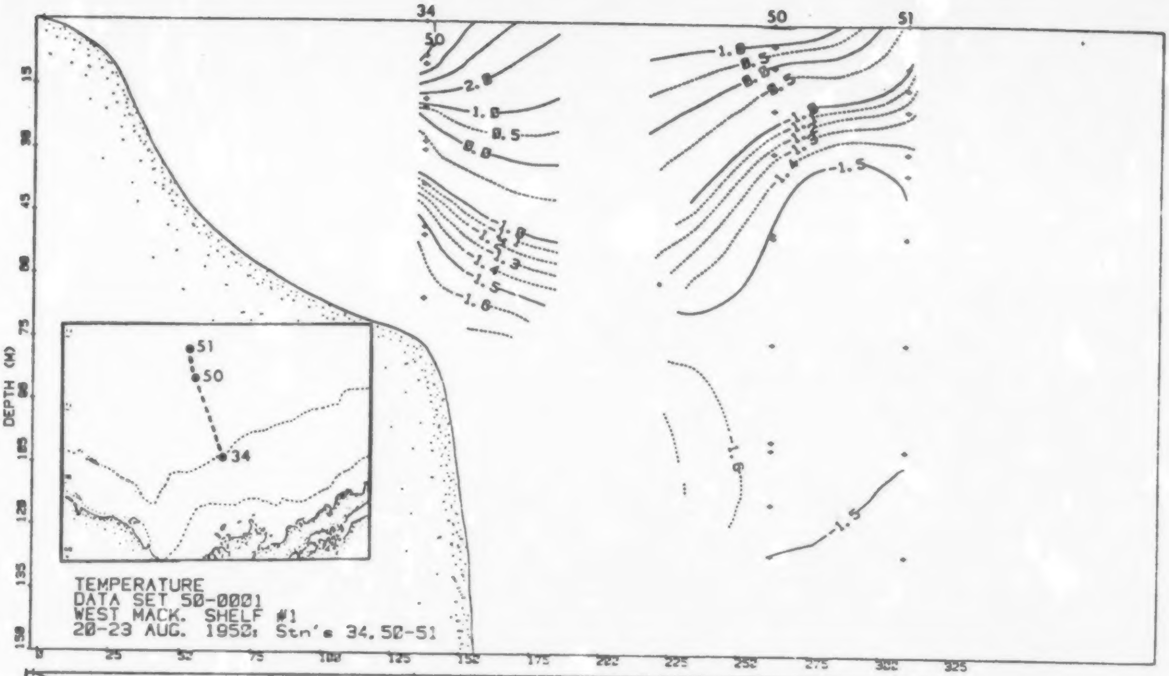


DATA SET 87-DFO 19 JUL.- 1 AUG.

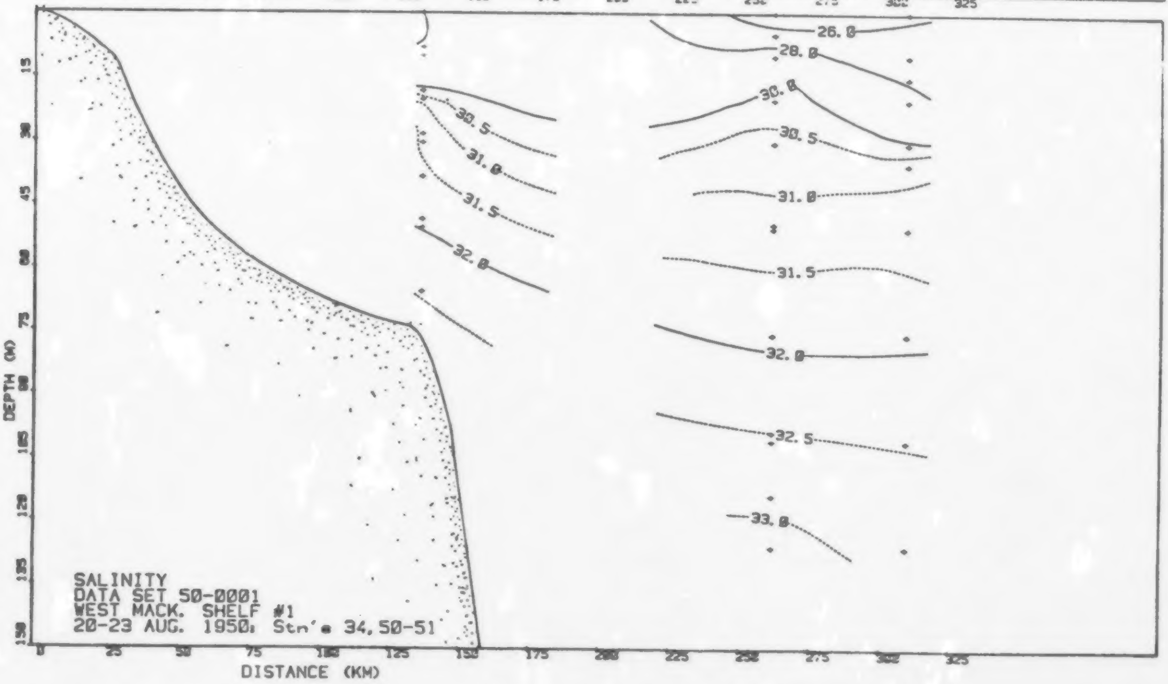

DATA SET 87-DFO (17-27 AUG.)

## APPENDIX E

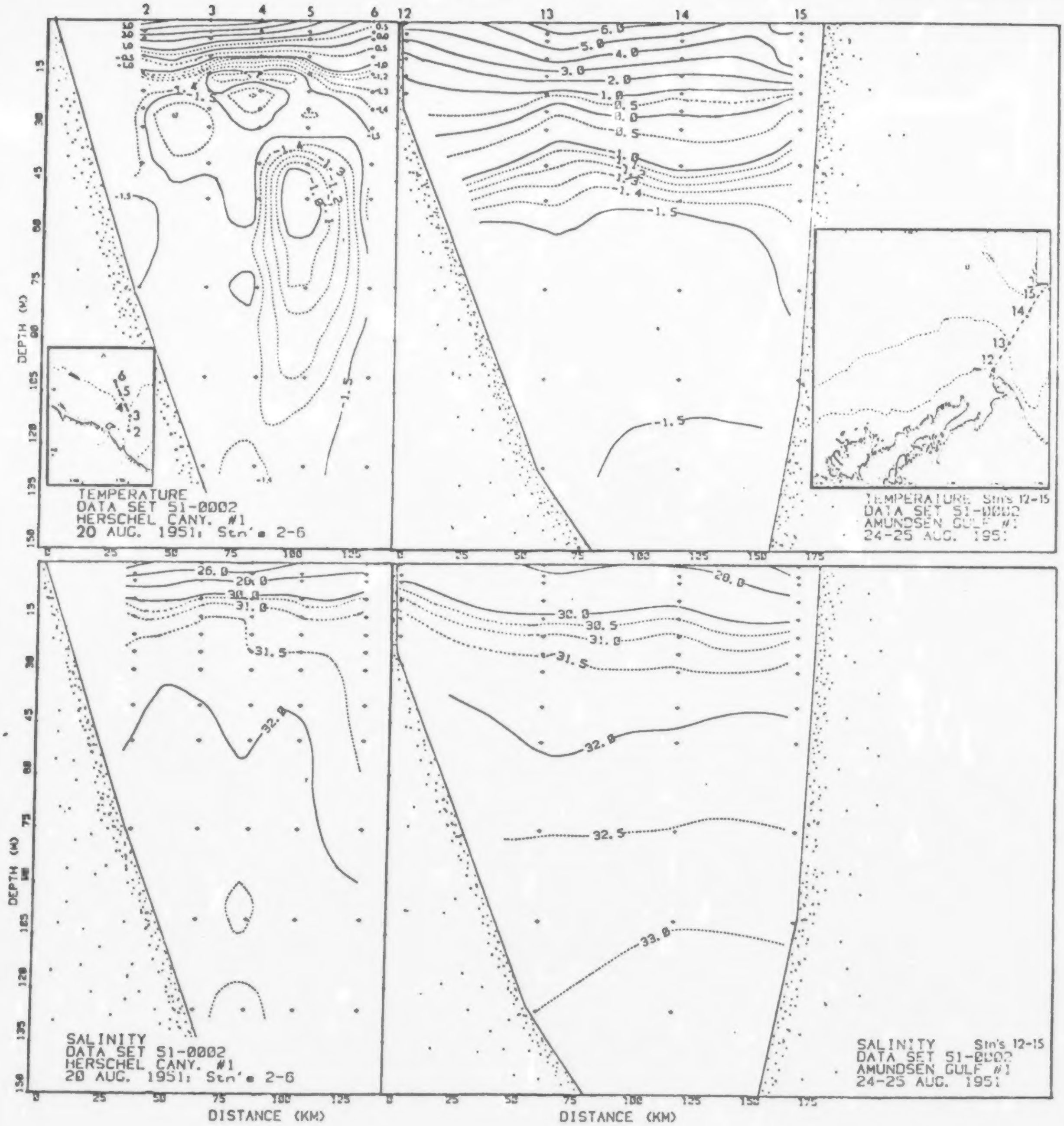
## TEMPERATURE AND SALINITY CONTOURS ON VERTICAL CROSS SECTIONS

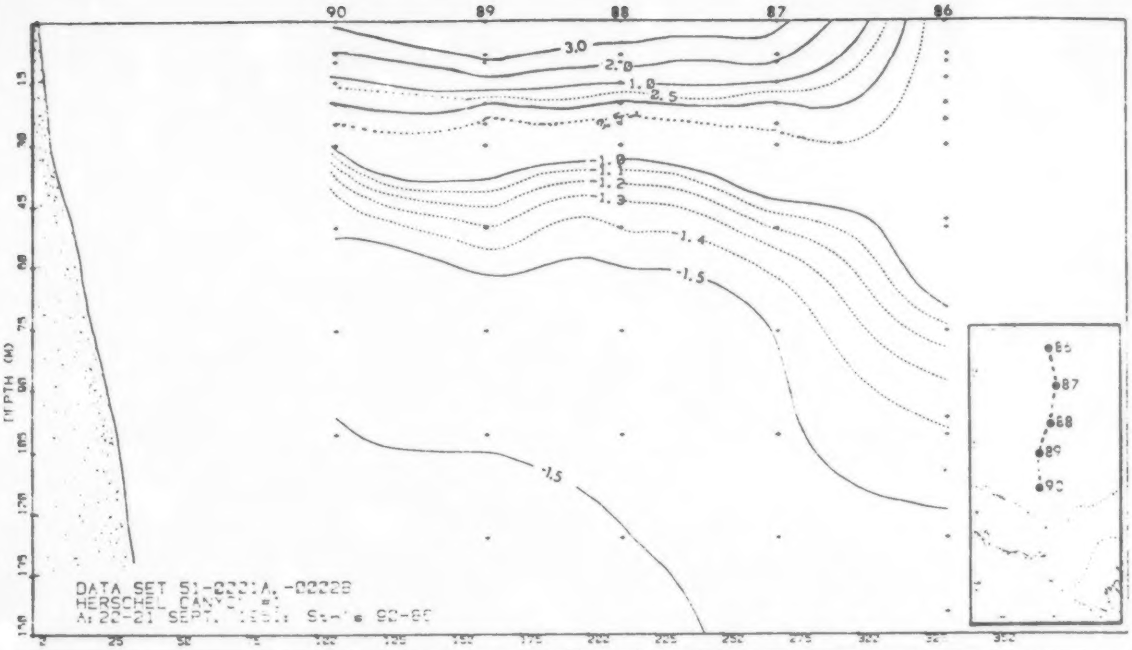


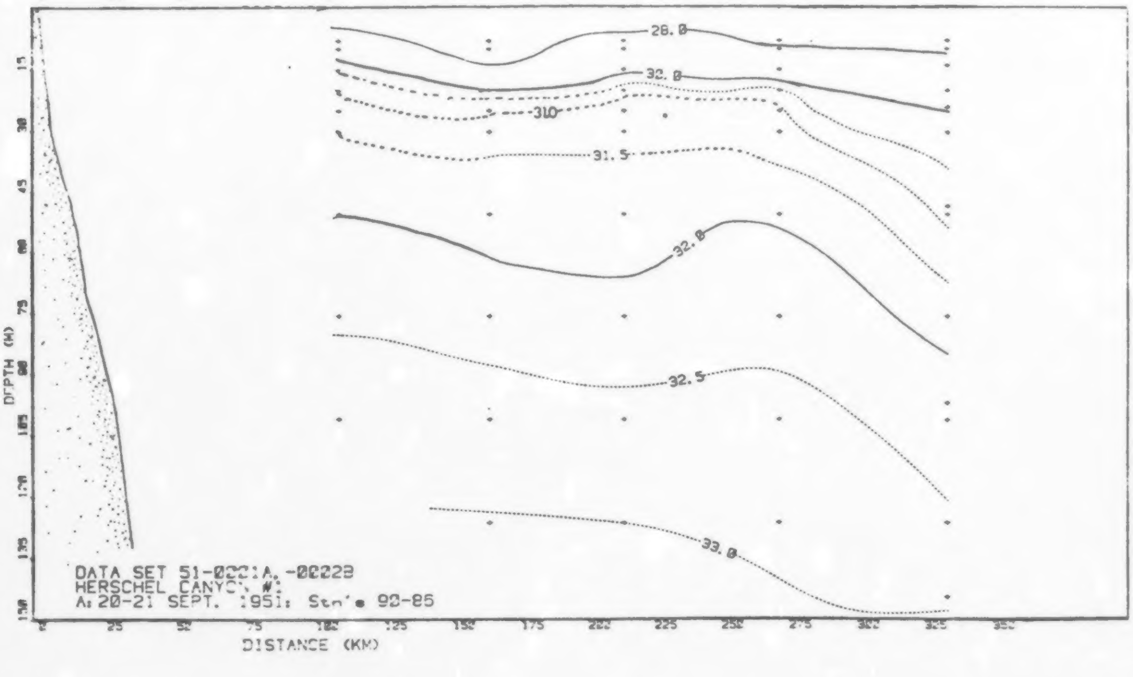
TEMPERATURE
DATA SET 50-0001
WEST MACK. SHELF #1
20-23 AUG. 1950; Stn's 34,50-51

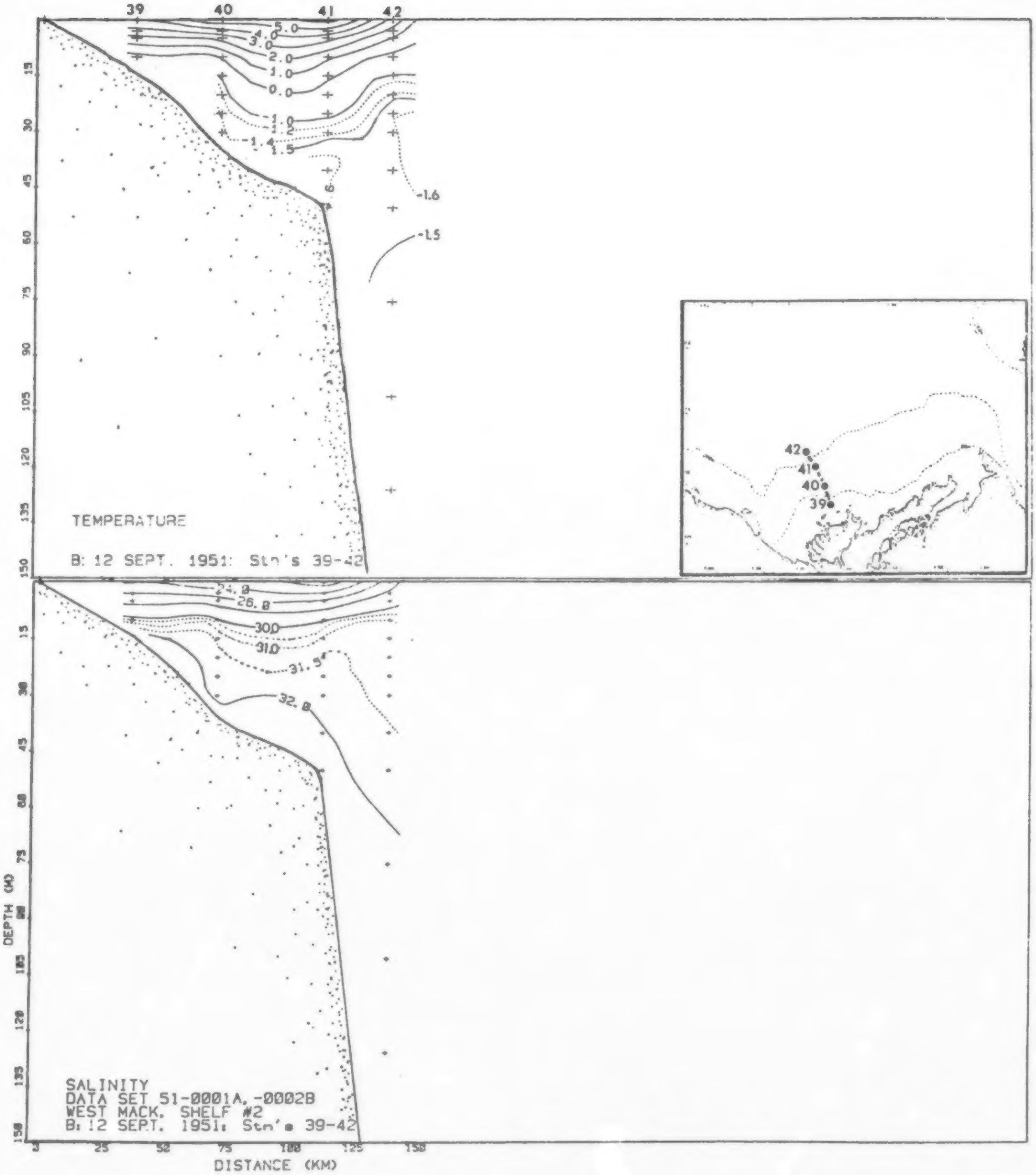


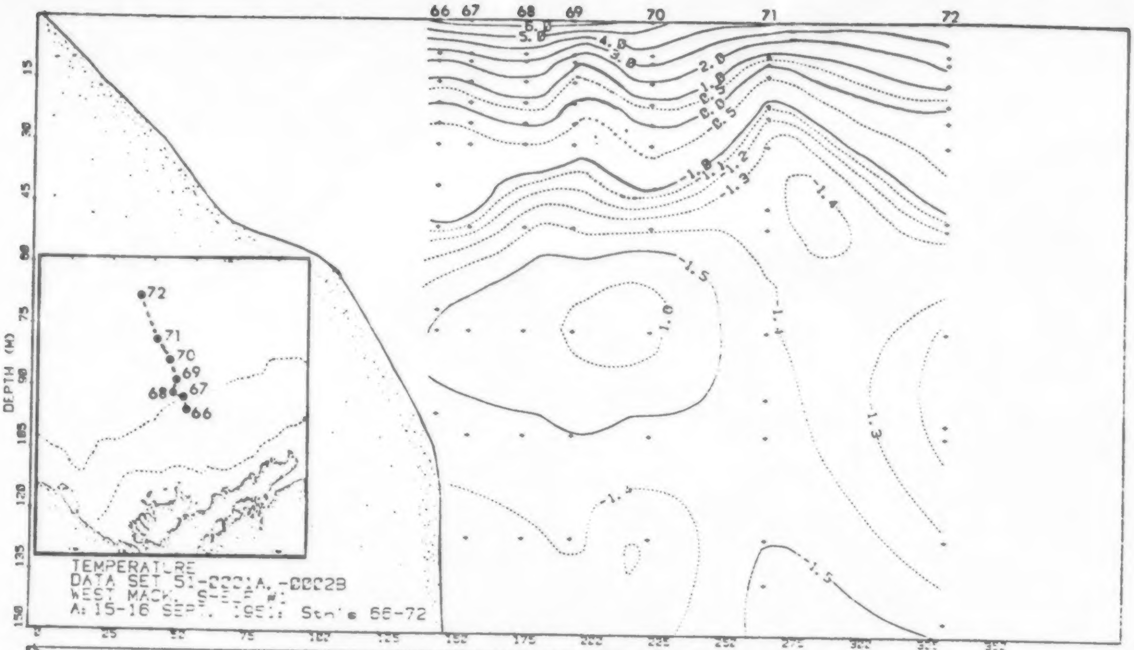
SALINITY
DATA SET 50-0001
WEST MACK. SHELF #1
20-23 AUG. 1950; Stn's 34,50-51

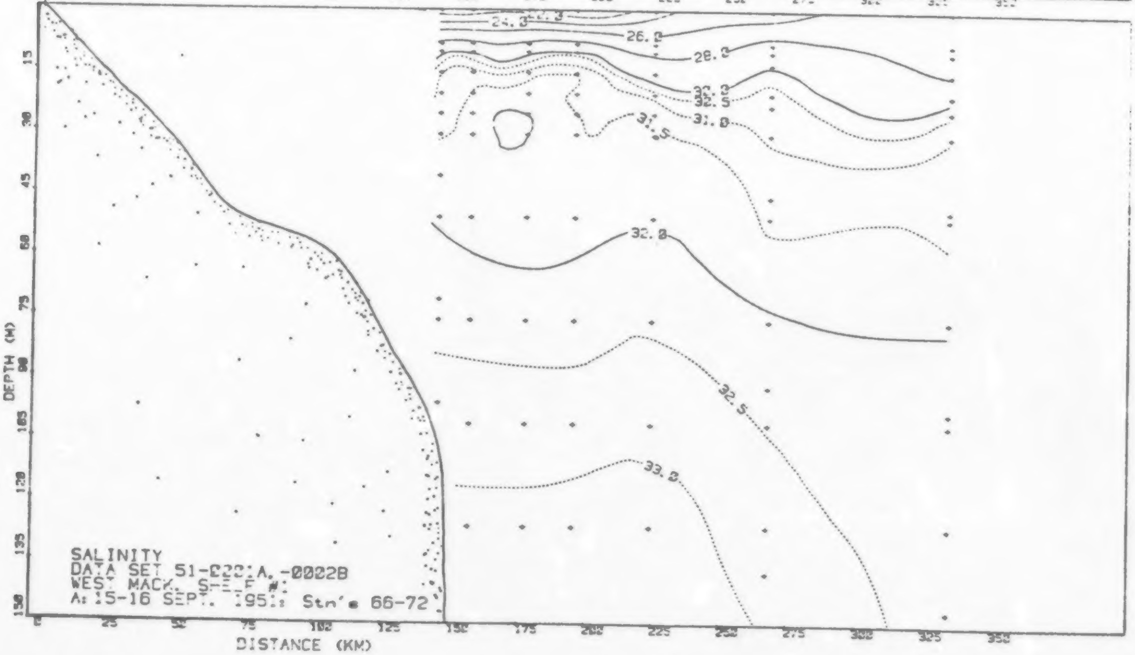

2
3
4
5
6
12
13
14
15
6.0
5.0
4.0
3.0
2.0
1.0
0.5
0.0
-0.5
-1.0
-1.3
-1.4
-1.5
-1.2
-1.6
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
175
TEMPERATURE
DATA SET 51-0002
HERSCHEL CANY. #1
20 AUG. 1951; Stn's 2-6
TEMPERATURE Stn's 12-15
DATA SET 51-0002
AMUNDSEN GULF #1
24-25 AUG. 1951
26.0
28.0
30.0
30.5
31.0
31.5
32.0
32.5
33.0
SALINITY
DATA SET 51-0002
HERSCHEL CANY. #1
20 AUG. 1951; Stn's 2-6
SALINITY Stn's 12-15
DATA SET 51-0002
AMUNDSEN GULF #1
24-25 AUG. 1951
DISTANCE (KM)
DISTANCE (KM)

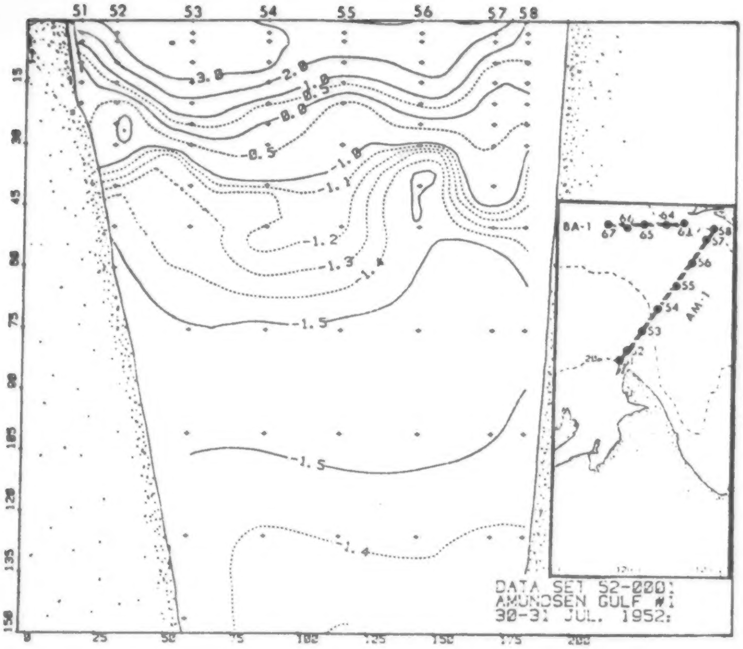

90
89
88
87
86
3.0
2.0
1.0
2.5
-1.0
-1.1
-1.2
-1.3
-1.4
-1.5
-1.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
86
87
88
89
90
DATA SET 51-0221A,-0222B
HERSCHEL CANYON #1
A: 20-21 SEPT. 1951; Stn's 90-85


28.0
30.0
31.0
31.5
32.0
32.5
33.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
DISTANCE (KM)
DATA SET 51-0221A,-0222B
HERSCHEL CANYON #1
A: 20-21 SEPT. 1951; Stn's 90-85

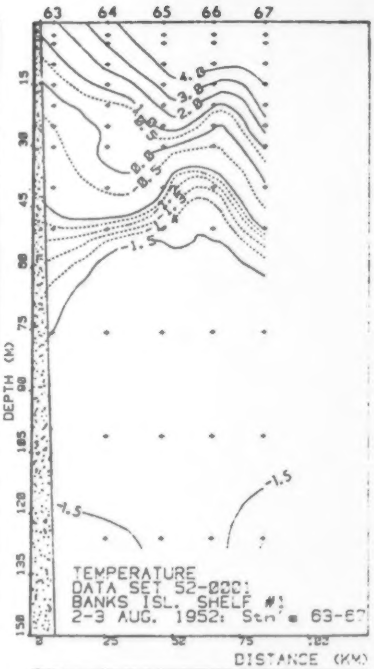

39
40
41
42
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-1.2
-1.4
-1.5
6
-1.6
-1.5
15
30
45
60
75
90
105
120
135
150
TEMPERATURE
B: 12 SEPT. 1951: Stn's 39-42
42
41
40
39
24.0
26.0
30.0
31.0
31.5
32.0
SALINITY
DATA SET 51-0001A,-0002B
WEST MACK. SHELF #2
B: 12 SEPT. 1951: Stn's 39-42
DEPTH (M)
0
25
50
75
100
125
150
DISTANCE (KM)


66 67 68 69 70 71 72
6.0
5.0
4.0
3.0
2.0
1.0
0.5
0.0
-0.5
-1.0
-1.1
-1.2
-1.3
-1.4
-1.5
-1.0
-1.4
-1.3
-1.5
-1.5
72
71
70
69
68
67
66
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
TEMPERATURE
DATA SET 51-0021A,-0022B
WEST MACK. SHELF #1
A: 15-16 SEPT. 1951: Stn's 66-72

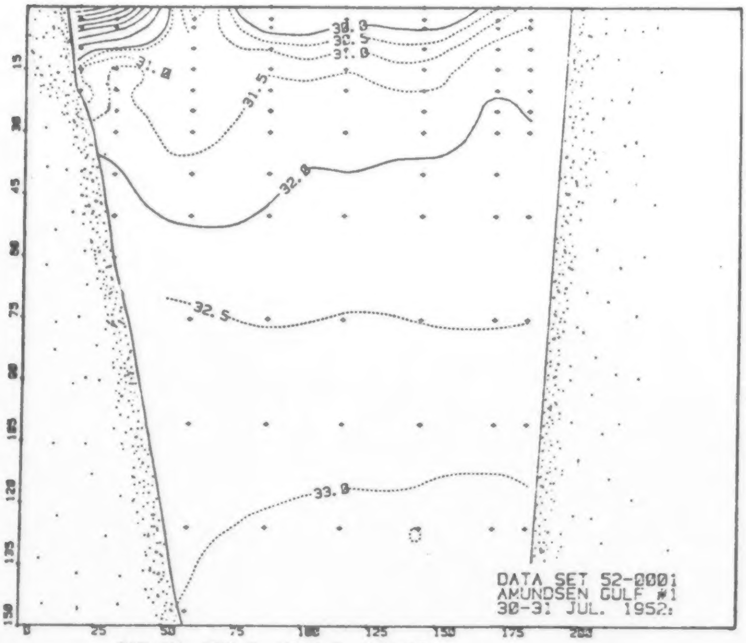

24.0
25.0
26.0
28.0
30.0
32.5
31.0
31.5
32.0
32.5
33.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
DISTANCE (KM)
SALINITY
DATA SET 51-0021A,-0022B
WEST MACK. SHELF #1
A: 15-16 SEPT. 1951: Stn's 66-72



DATA SET 52-0001;
AMUNDSEN GULF #1
30-31 JUL. 1952;

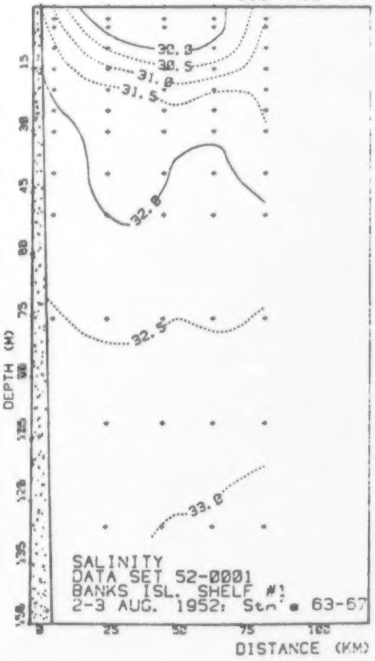


TEMPERATURE
DATA SET 52-0001;
BANKS ISL. SHELF #1
2-3 AUG. 1952; Stn's 63-67

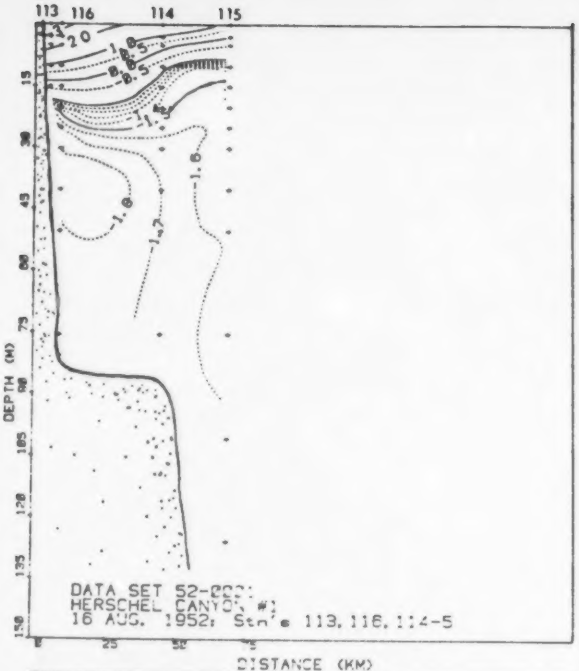


DATA SET 52-0001
AMUNDSEN GULF #1
30-31 JUL. 1952;

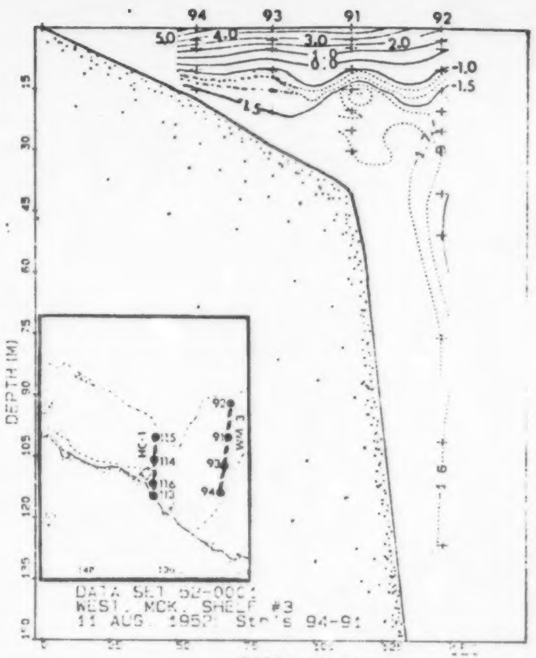
CAY=10. NSM=0. CAYC=0. NXY=25



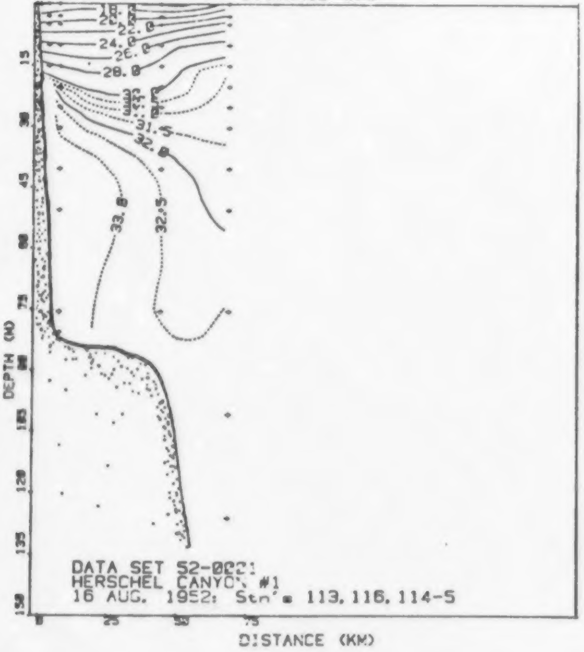
SALINITY
DATA SET 52-0001
BANKS ISL. SHELF #1
2-3 AUG. 1952; Stn's 63-67



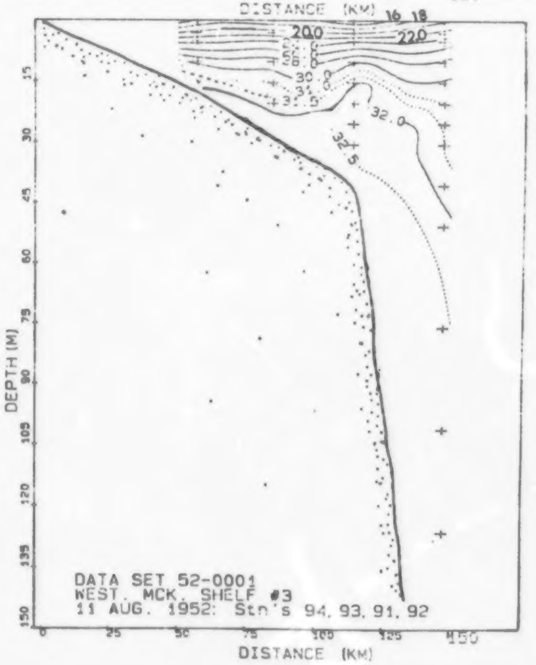
DATA SET 52-0021
HERSCHEL CANYON #1
16 AUG. 1952: Stn's 113, 116, 114-5



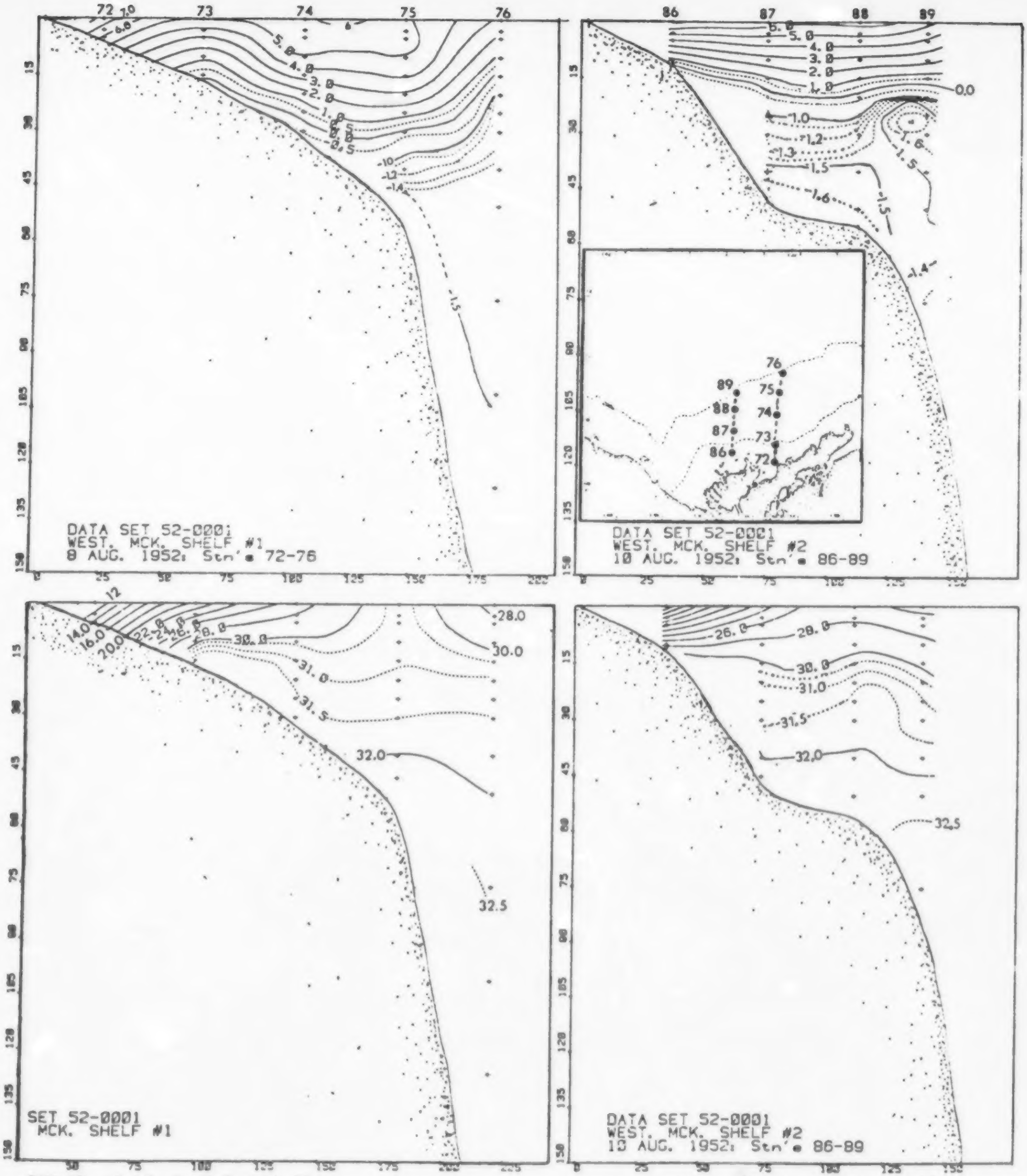
DATA SET 52-0001
WEST. MCK. SHELF #3
11 AUG. 1952: Stn's 94-91



DATA SET 52-0021
HERSCHEL CANYON #1
16 AUG. 1952: Stn's 113, 116, 114-5

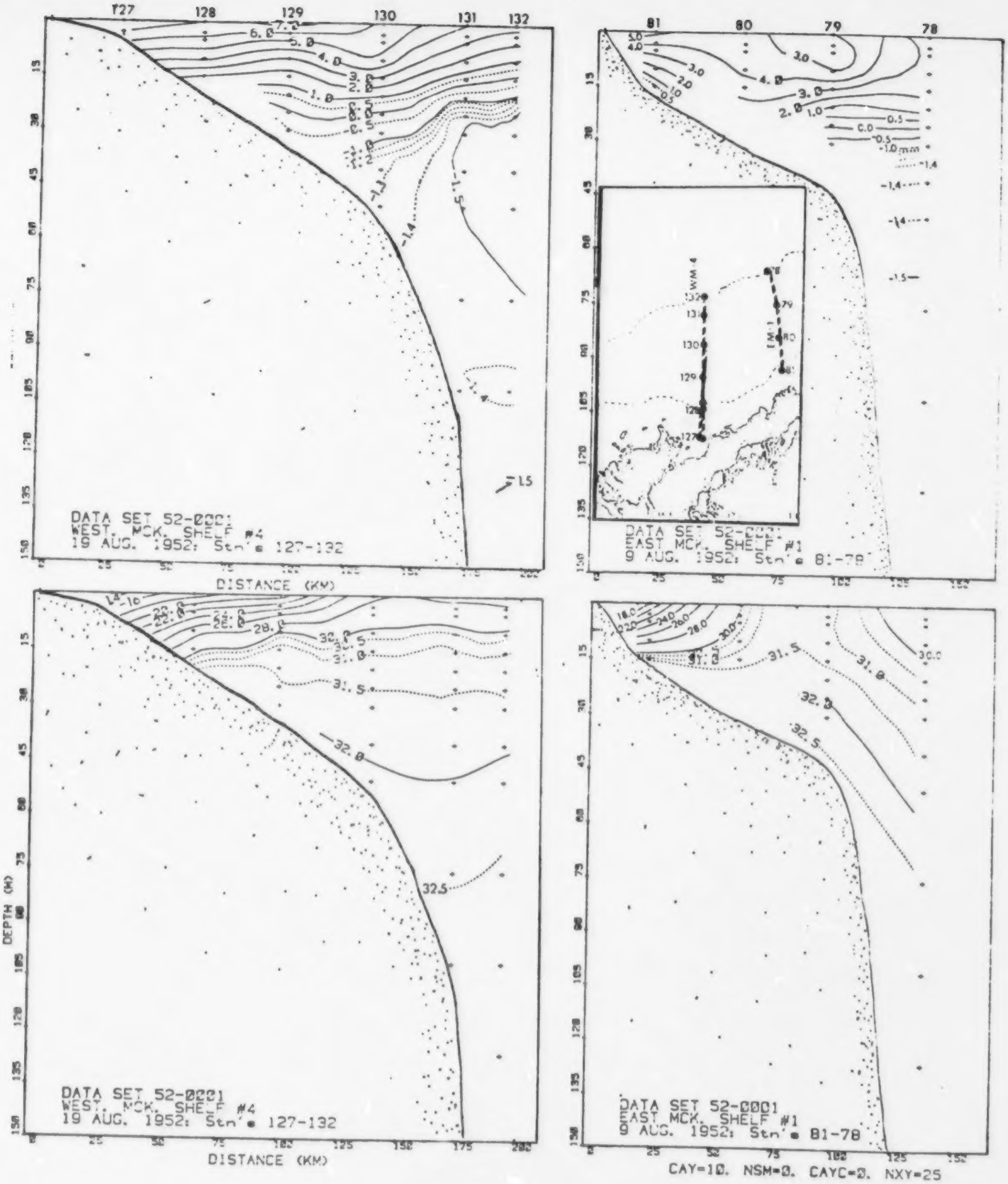


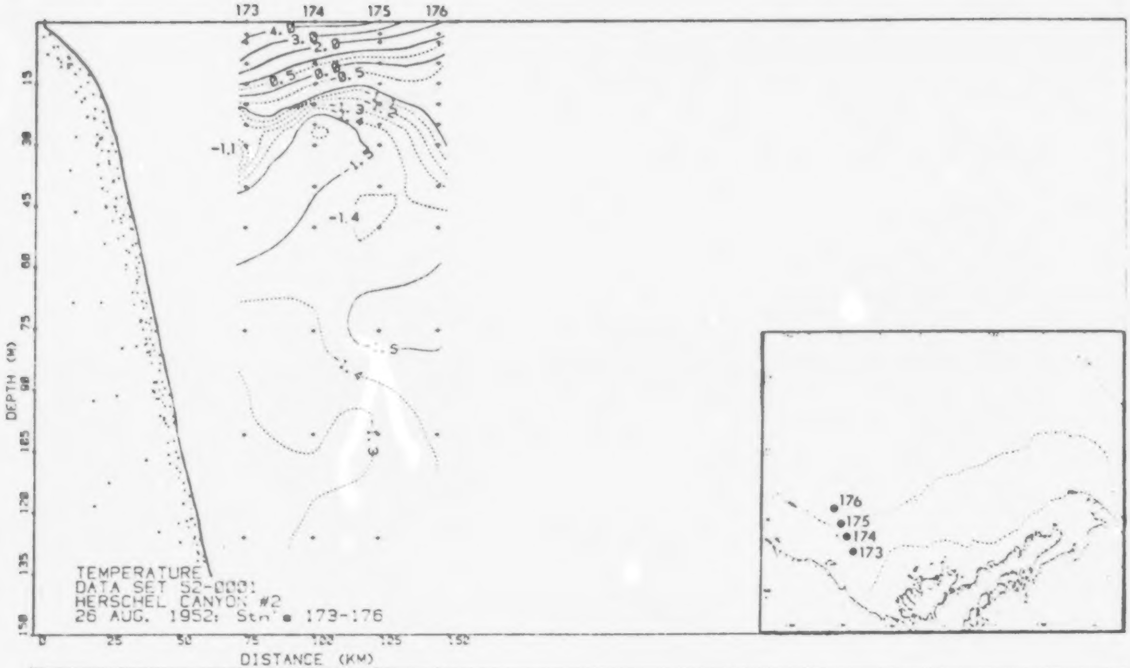
DATA SET 52-0001
WEST. MCK. SHELF #3
11 AUG. 1952: Stn's 94, 93, 91, 92

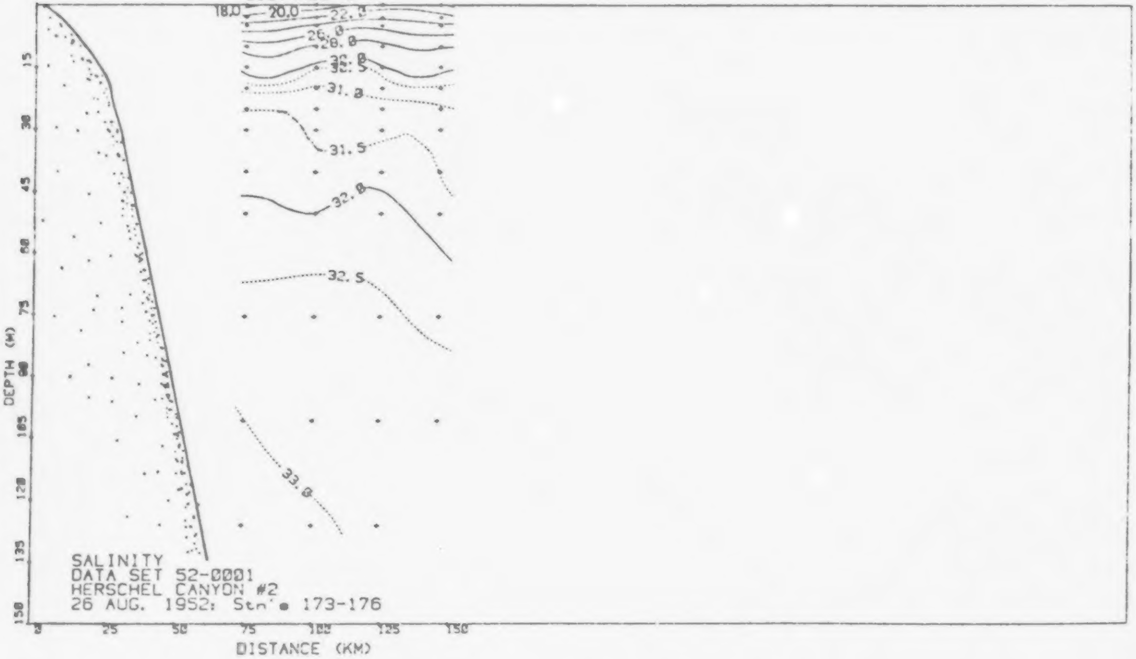


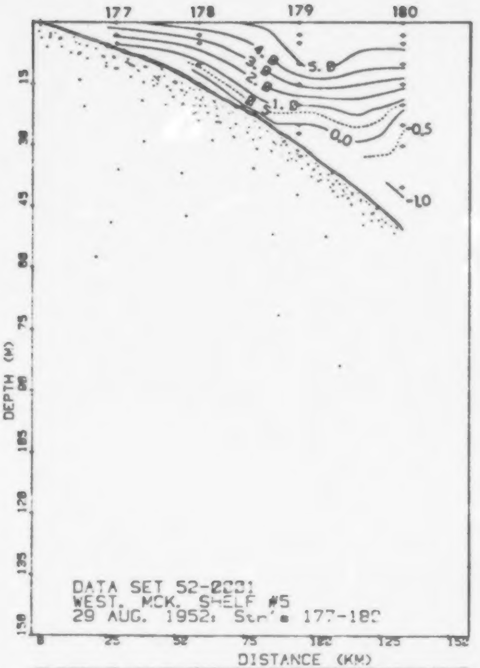
CAY=10. NSM=0. CAYC=0. NXY=25

CAY=10. NSM=0. CAYC=0. NXY=25

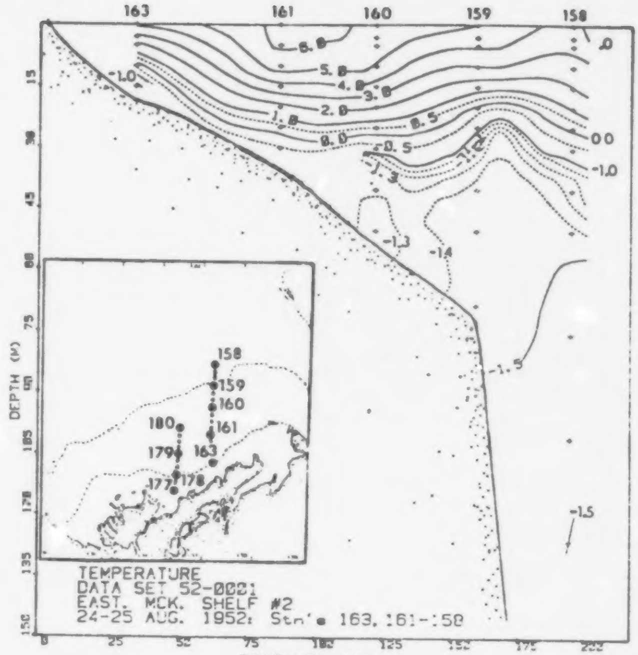

127
128
129
130
131
132
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.5
0.0
-0.5
-1.0
-1.2
-1.3
-1.4
-1.5
-1.4
-1.5
DATA SET 52-0001
WEST. MCK. SHELF #4
19 AUG. 1952: Stn's 127-132
DISTANCE (KM)
81
80
79
78
5.0
4.0
3.0
2.0
1.0
0.5
3.0
4.0
3.0
2.0
1.0
0.5
0.0
-0.5
-1.0
-1.4
-1.4
-1.4
-1.5
WM-4
132
131
130
129
128
127
EM-1
78
79
80
81
DATA SET 52-0001
EAST MCK. SHELF #1
9 AUG. 1952: Stn's 81-78
1.4
10
22.0
24.0
26.0
28.0
30.0
30.5
31.0
31.5
32.0
32.5
DEPTH (M)
DATA SET 52-0001
WEST. MCK. SHELF #4
19 AUG. 1952: Stn's 127-132
DISTANCE (KM)
18.0
22.0
24.0
26.0
28.0
30.0
31.0
31.5
31.0
32.0
32.5
30.0
DATA SET 52-0001
EAST MCK. SHELF #1
9 AUG. 1952: Stn's 81-78
CAY=10. NSM=0. CAYC=0. NXY=25
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
175
200


173
174
175
176
4.0
3.0
2.0
0.5
0.0
-0.5
-1.3
-1.1
-1.4
-1.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
DISTANCE (KM)
TEMPERATURE
DATA SET 52-0001
HERSCHEL CANYON #2
26 AUG. 1952: Stn's 173-176
176
175
174
173

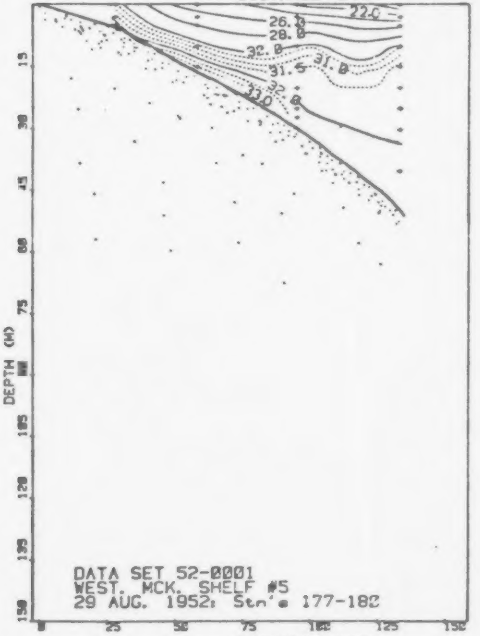

18.0
20.0
22.0
26.0
28.0
30.0
30.5
31.0
31.5
32.0
32.5
33.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
DISTANCE (KM)
SALINITY
DATA SET 52-0001
HERSCHEL CANYON #2
26 AUG. 1952: Stn's 173-176



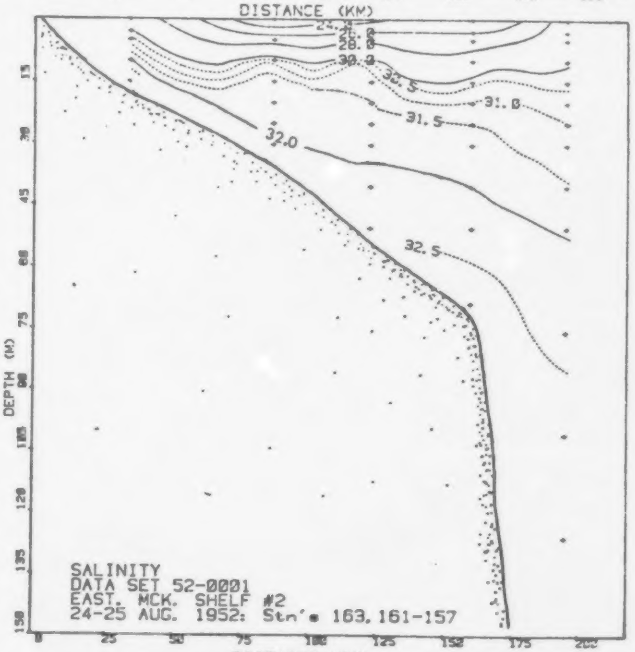
DATA SET 52-0001
WEST. MCK. SHELF #5
29 AUG. 1952: Stn's 177-180



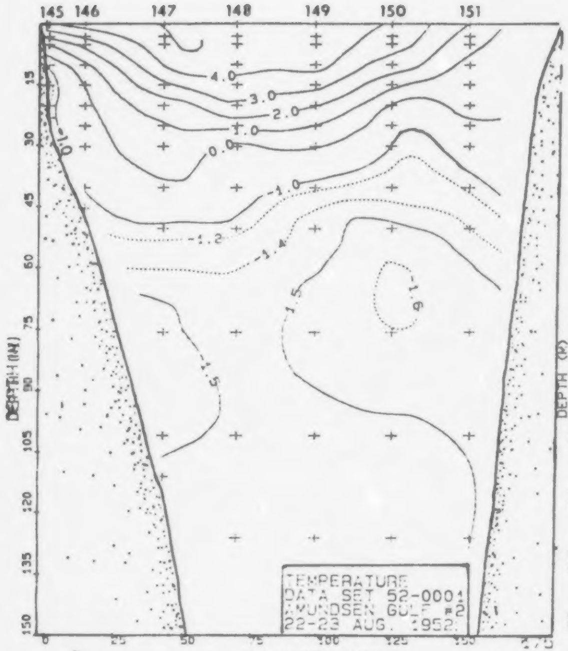
TEMPERATURE
DATA SET 52-0001
EAST. MCK. SHELF #2
24-25 AUG. 1952: Stn's 163, 161-158

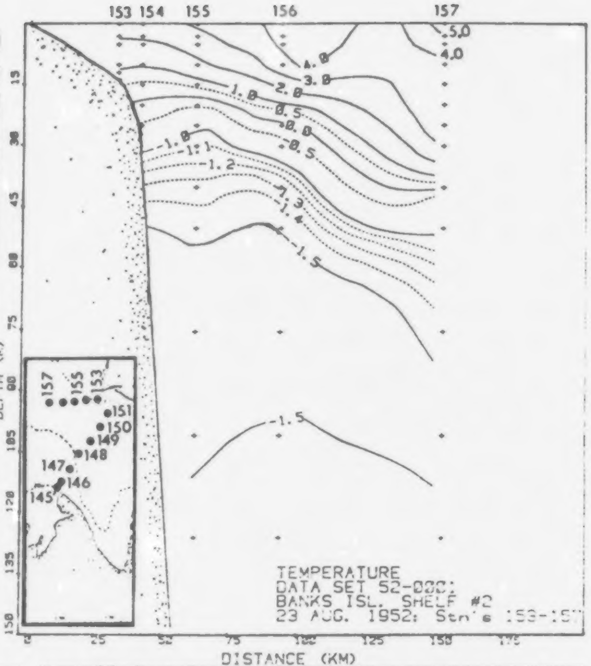


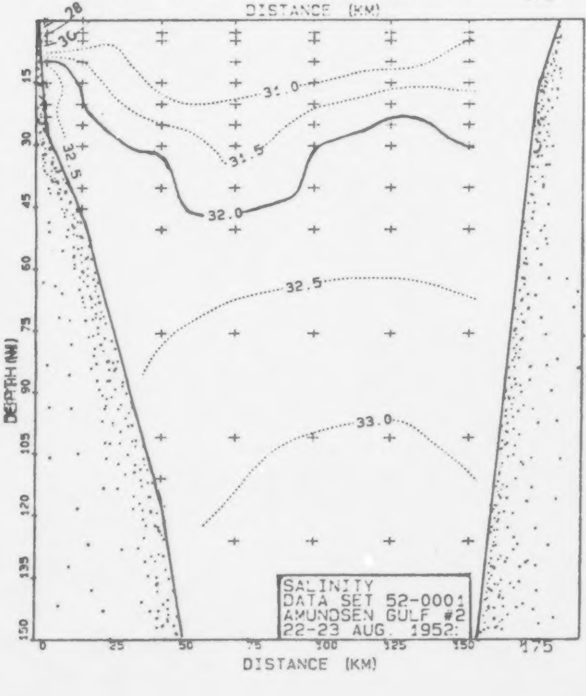
DATA SET 52-0001
WEST. MCK. SHELF #5
29 AUG. 1952: Stn's 177-180

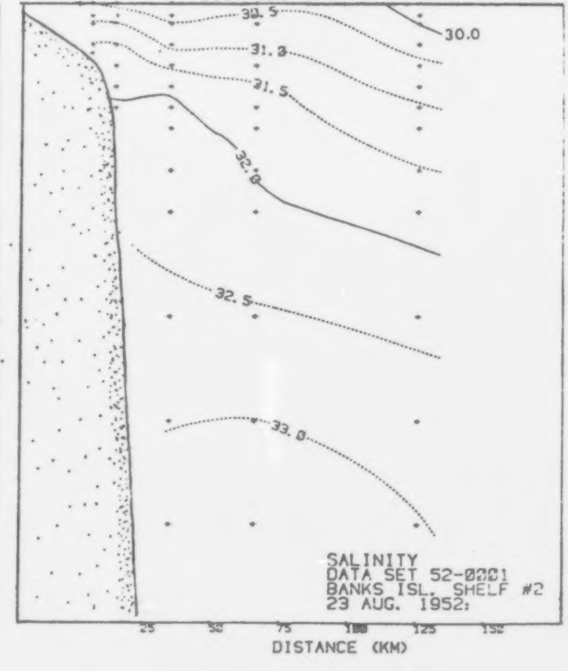


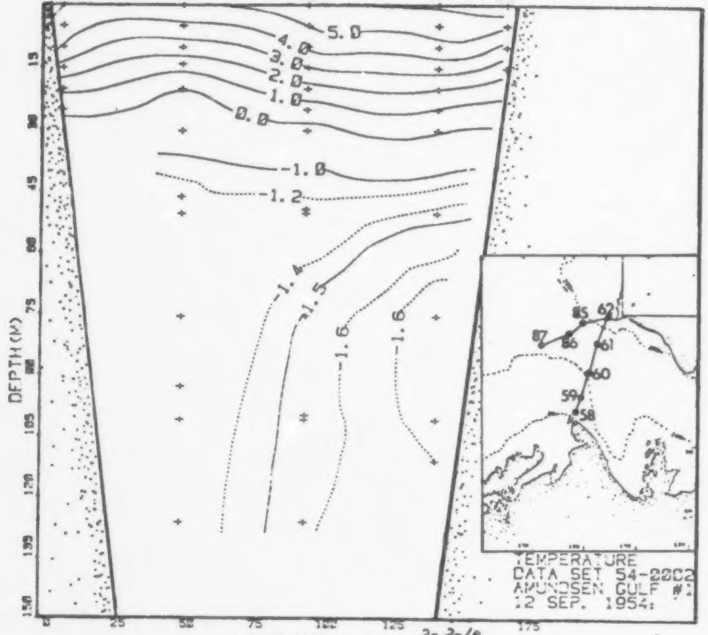
SALINITY
DATA SET 52-0001
EAST. MCK. SHELF #2
24-25 AUG. 1952: Stn's 163, 161-157


145 146 147 148 149 150 151
4.0
3.0
2.0
1.0
0.0
-1.0
-1.2
-1.4
-1.5
-1.6
DEPTH (M)
DISTANCE (KM)
TEMPERATURE
DATA SET 52-0001
AMUNDSEN GULF #2
22-23 AUG. 1952:

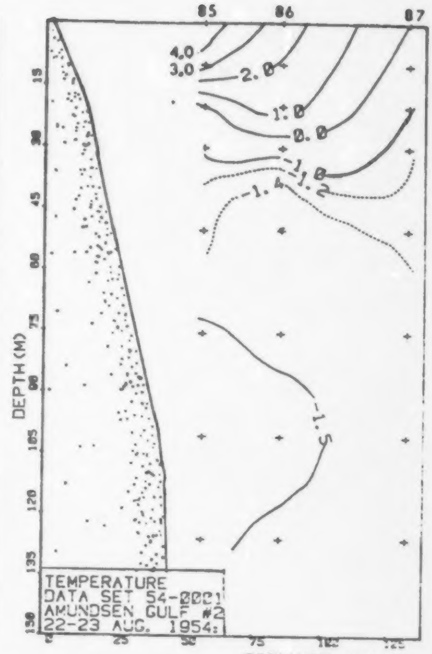

153 154 155 156 157
5.0
4.0
3.0
2.0
1.0
0.5
0.0
-0.5
-1.0
-1.1
-1.2
-1.3
-1.4
-1.5
157 155 153 151 150 149 148 147 146 145
DEPTH (M)
DISTANCE (KM)
TEMPERATURE
DATA SET 52-0001
BANKS ISL. SHELF #2
23 AUG. 1952: Stn's 153-157


28
30
31.0
31.5
32.0
32.5
33.0
DEPTH (M)
DISTANCE (KM)
SALINITY
DATA SET 52-0001
AMUNDSEN GULF #2
22-23 AUG. 1952:

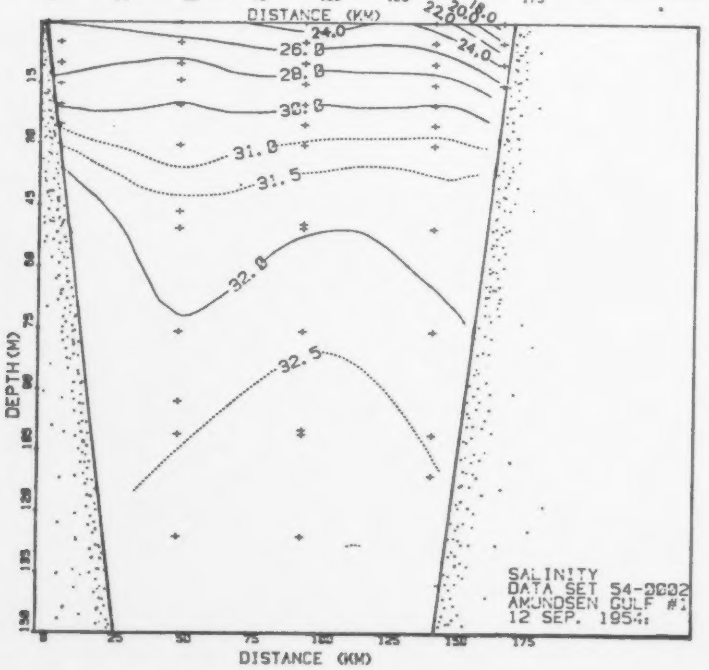

30.5
30.0
31.0
31.5
32.0
32.5
33.0
DISTANCE (KM)
SALINITY
DATA SET 52-0001
BANKS ISL. SHELF #2
23 AUG. 1952:



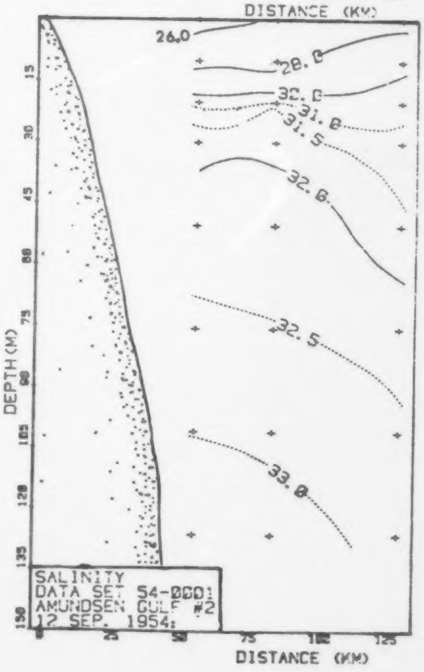
TEMPERATURE
DATA SET 54-0002
AMUNDSEN GULF #1
12 SEP. 1954:



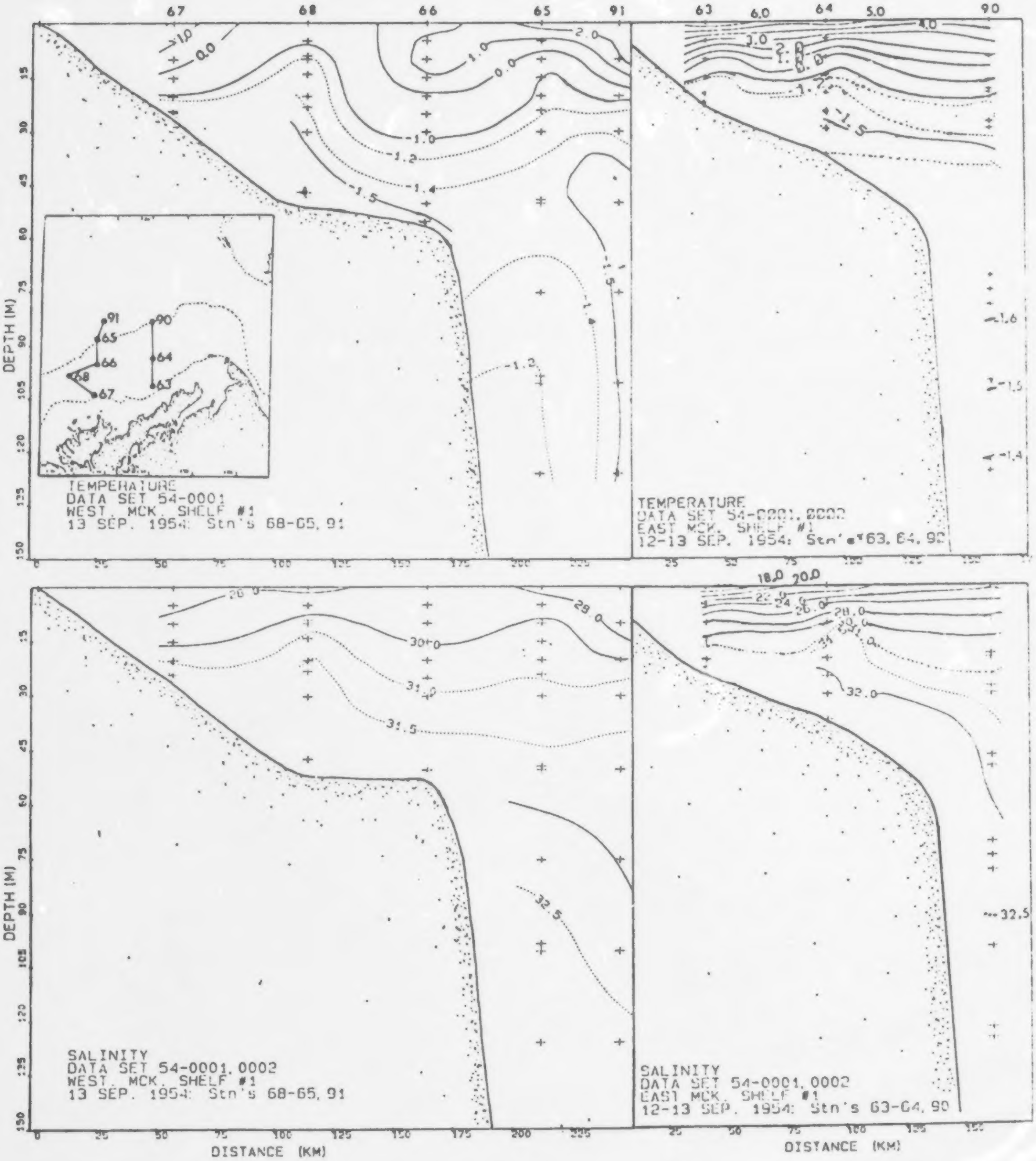
TEMPERATURE
DATA SET 54-0001
AMUNDSEN GULF #2
22-23 AUG. 1954:

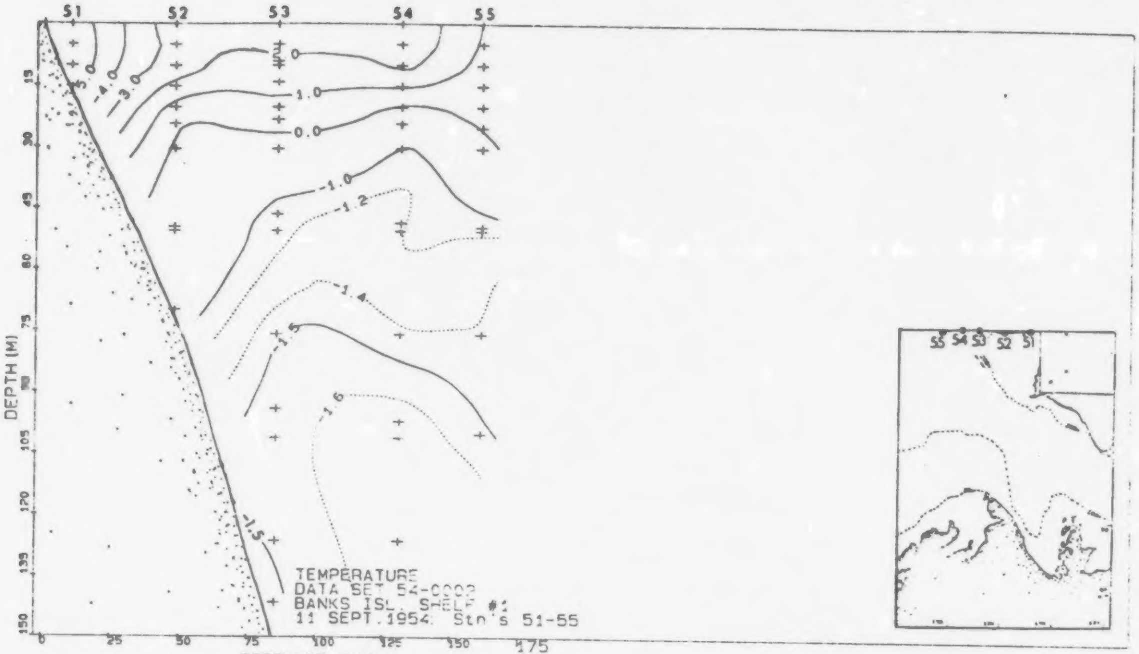


SALINITY
DATA SET 54-0002
AMUNDSEN GULF #1
12 SEP. 1954:

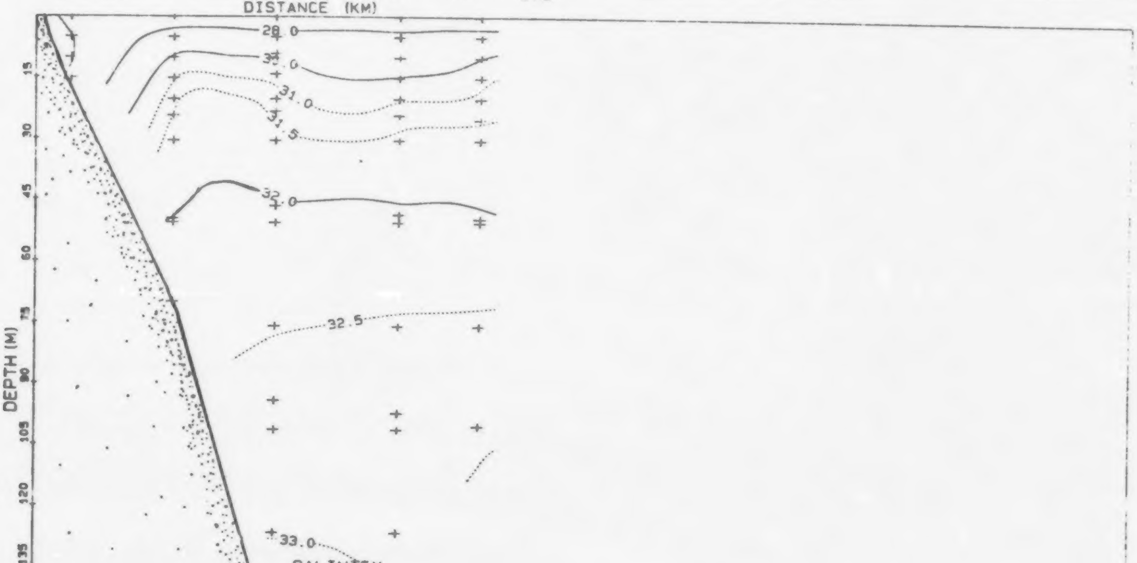


SALINITY
DATA SET 54-0001
AMUNDSEN GULF #2
12 SEP. 1954:


67
68
66
65
91
63
6.0
64
5.0
90
1.0
0.0
2.0
-1.0
-1.2
-1.4
-1.5
4.0
3.0
-1.6
-1.5
-1.4
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
TEMPERATURE
DATA SET 54-0001
WEST. MCK. SHELF #1
13 SEP. 1954: Stn's 68-65, 91
TEMPERATURE
DATA SET 54-0001, 0002
EAST MCK. SHELF #1
12-13 SEP. 1954: Stn's 63, 64, 90
28.0
29.0
30.0
31.0
31.5
32.5
18.0
20.0
22.0
24.0
26.0
28.0
30.0
32.0
32.5
SALINITY
DATA SET 54-0001, 0002
WEST. MCK. SHELF #1
13 SEP. 1954: Stn's 68-65, 91
SALINITY
DATA SET 54-0001, 0002
EAST MCK. SHELF #1
12-13 SEP. 1954: Stn's 63-64, 90
0
25
50
75
100
125
150
175
200
225
DISTANCE (KM)
DISTANCE (KM)

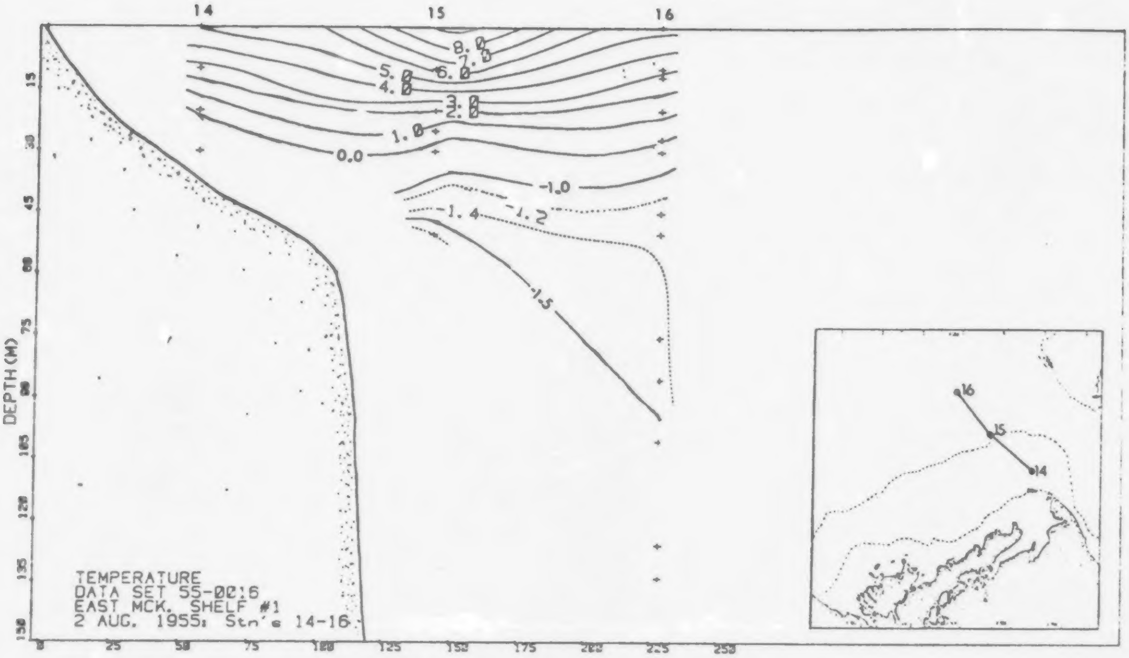


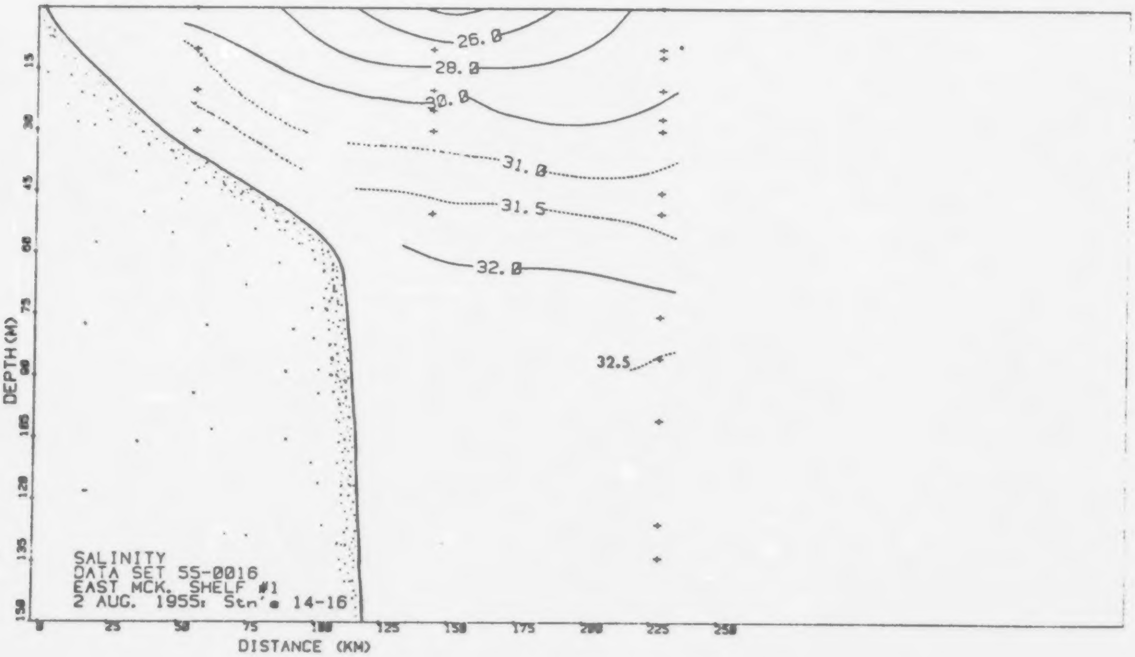
TEMPERATURE
DATA SET 54-0002
BANKS ISL. SHELF #1
11 SEPT. 1954. Stn's 51-55

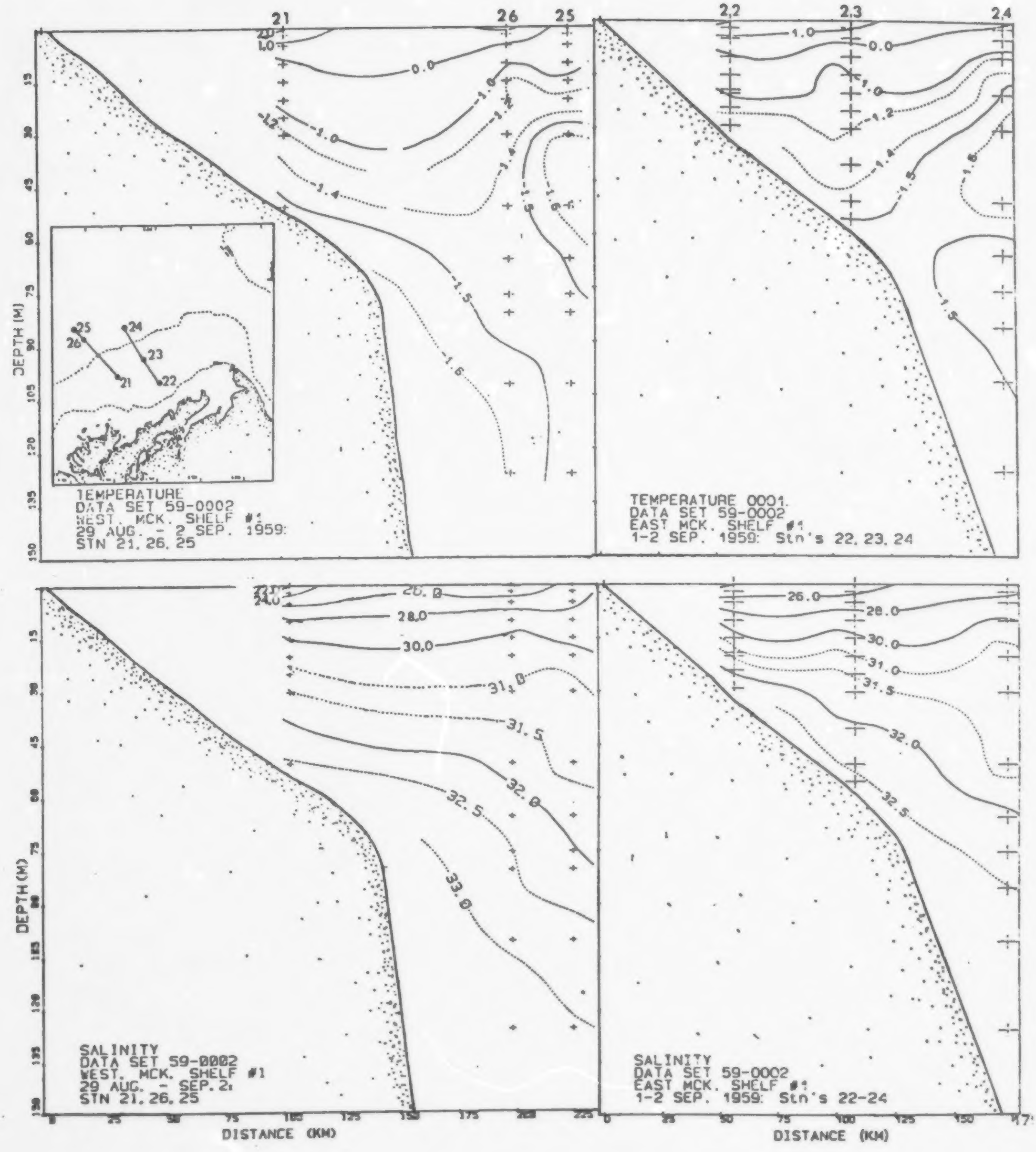


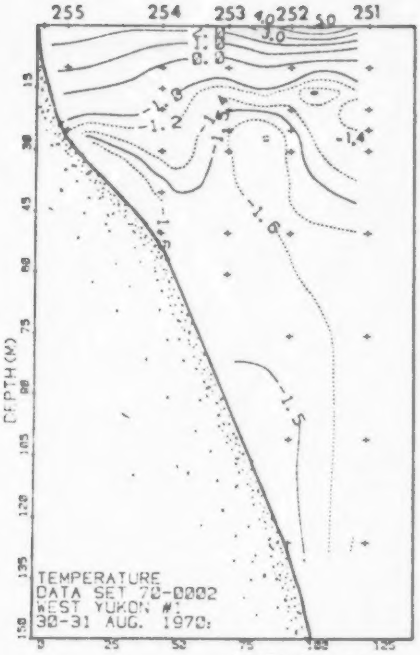
SALINITY

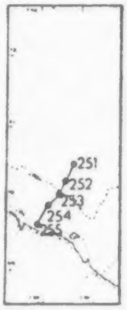
BANKS ISL. SHELF #1
11 SEPT. 1954. Stn's 51-55

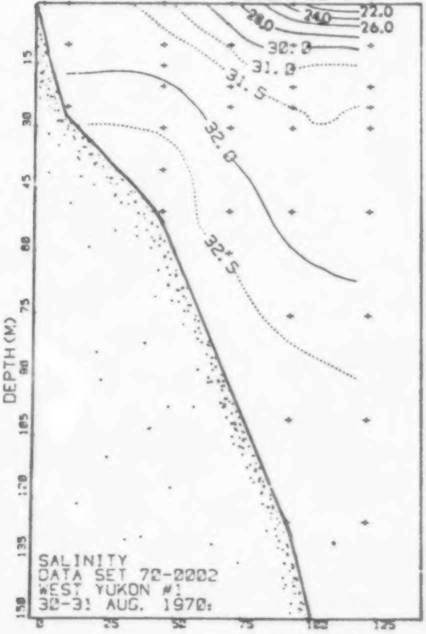

14
15
16
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-1.2
-1.4
-1.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
175
200
225
250
TEMPERATURE
DATA SET 55-0016
EAST MCK. SHELF #1
2 AUG. 1955; Stn's 14-16
16
15
14

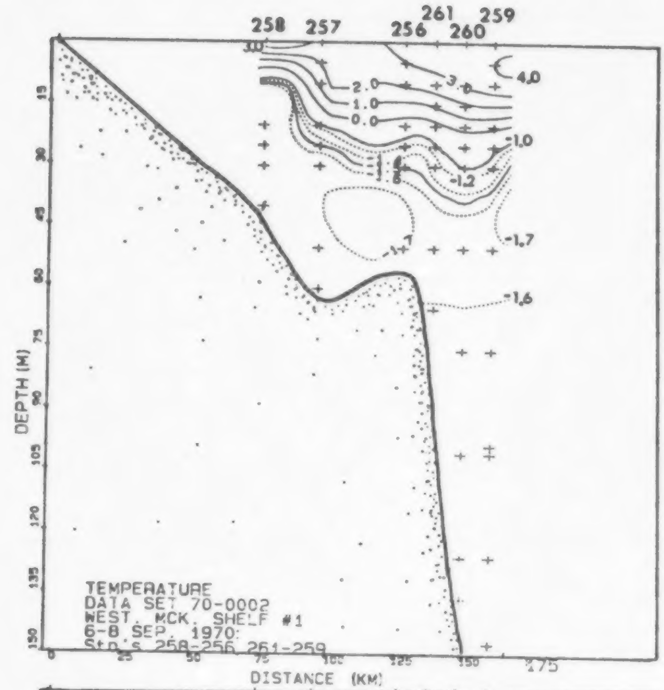

26.0
28.0
30.0
31.0
31.5
32.0
32.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
175
200
225
250
DISTANCE (KM)
SALINITY
DATA SET 55-0016
EAST MCK. SHELF #1
2 AUG. 1955; Stn's 14-16

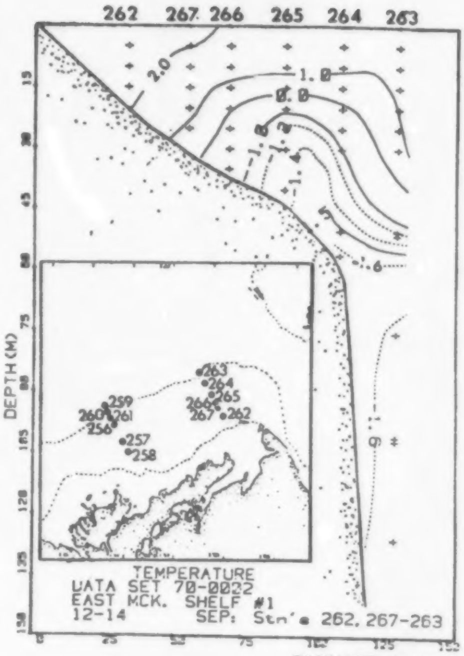

21
26
25
2.0
1.0
0.0
-1.0
-1.2
-1.4
-1.5
-1.6
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
25
26
24
23
21
22
TEMPERATURE
DATA SET 59-0002
WEST. MCK. SHELF #1
29 AUG. - 2 SEP. 1959:
STN 21, 26, 25
2.2
2.3
2.4
1.0
0.0
-1.0
-1.2
-1.4
-1.5
-1.6
-1.5
TEMPERATURE 0001
DATA SET 59-0002
EAST MCK. SHELF #1
1-2 SEP. 1959: Stn's 22, 23, 24
24.0
26.0
28.0
30.0
31.0
31.5
32.0
32.5
33.0
SALINITY
DATA SET 59-0002
WEST. MCK. SHELF #1
29 AUG. - SEP. 2:
STN 21, 26, 25
0
25
50
75
100
125
150
175
200
225
DISTANCE (KM)
26.0
28.0
30.0
31.0
31.5
32.0
32.5
SALINITY
DATA SET 59-0002
EAST MCK. SHELF #1
1-2 SEP. 1959: Stn's 22-24
0
25
50
75
100
125
150
17
DISTANCE (KM)

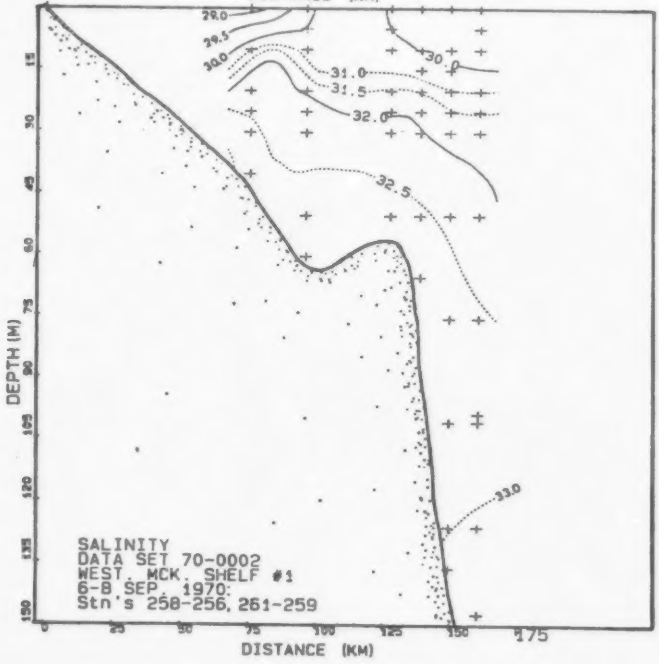

255
254
253
252
251
2.0
1.0
3.0
5.0
0.0
-1.0
-1.2
-1.5
-1.4
-1.6
-1.5
DEPTH (M)
DISTANCE (KM)
TEMPERATURE
DATA SET 70-0002
WEST YUKON #1
30-31 AUG. 1970:

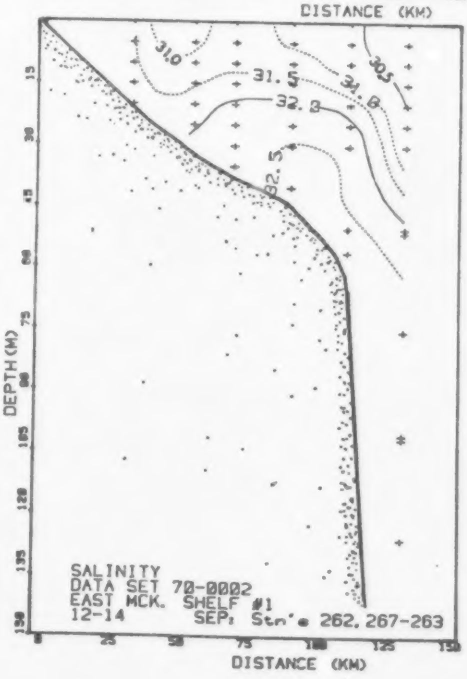

251
252
253
254
255

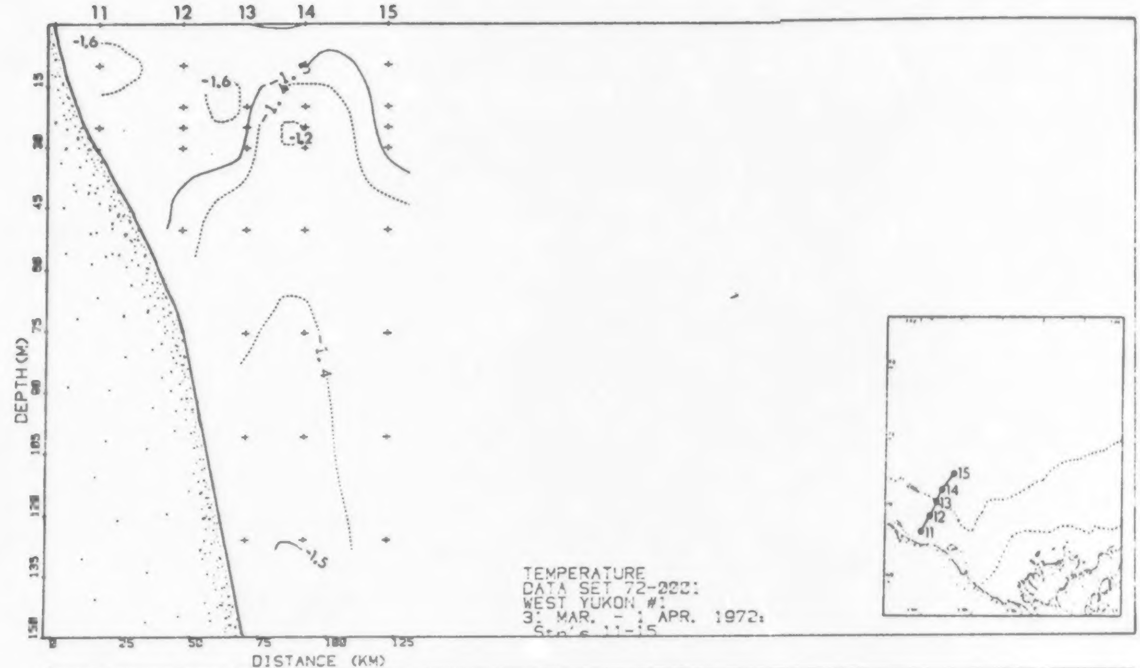

28.0
24.0
22.0
26.0
30.0
31.0
31.5
32.0
32.5
DEPTH (M)
DISTANCE (KM)
SALINITY
DATA SET 70-0002
WEST YUKON #1
30-31 AUG. 1970:


258 257 256 261 260 259
3.0
4.0
3.0
2.0
1.0
0.0
-1.0
-1.2
-1.7
-1.6
DEPTH (M)
15 30 45 60 75 90 105 120 135 150
0 25 50 75 100 125 150 175
DISTANCE (KM)
TEMPERATURE
DATA SET 70-0002
WEST. MCK. SHELF #1
6-8 SEP. 1970:
Stn's 258-256, 261-259

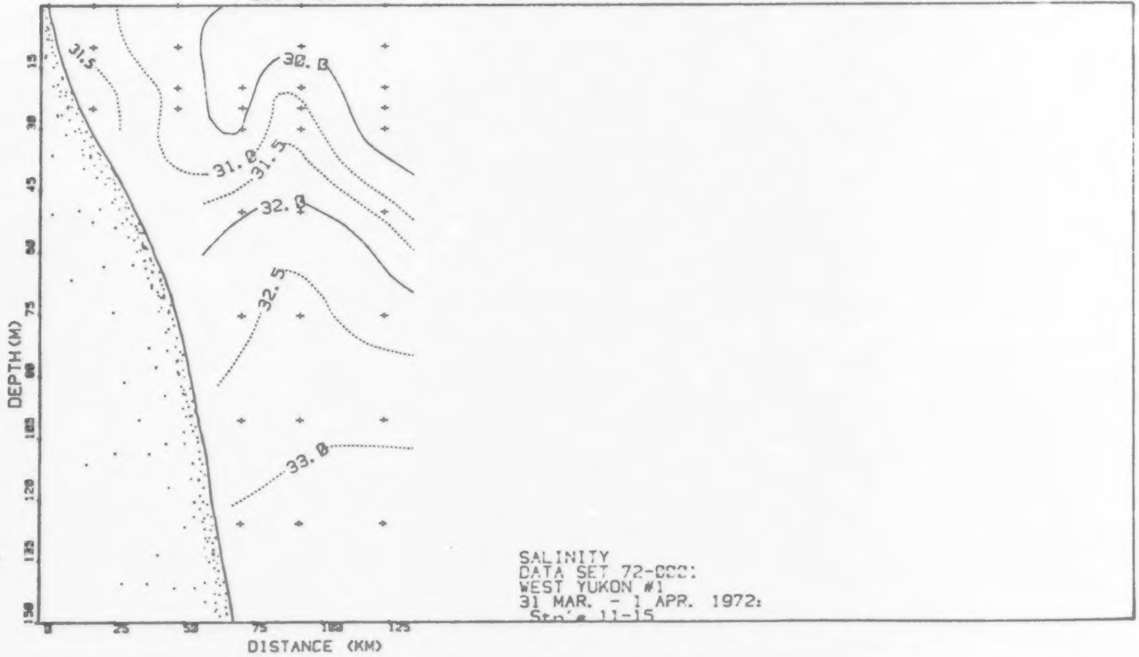

262 267 266 265 264 263
2.0
1.0
0.0
-1.0
-1.2
-1.4
-1.5
-1.6
263
264
265
266
267
262
259
260
261
256
257
258
DEPTH (M)
15 30 45 60 75 90 105 120 135 150
0 25 50 75 100 125 150
DISTANCE (KM)
TEMPERATURE
DATA SET 70-0022
EAST MCK. SHELF #1
12-14 SEP: Stn's 262, 267-263


29.0
29.5
30.0
30.0
31.0
31.5
32.0
32.5
33.0
DEPTH (M)
15 30 45 60 75 90 105 120 135 150
0 25 50 75 100 125 150 175
DISTANCE (KM)
SALINITY
DATA SET 70-0002
WEST. MCK. SHELF #1
6-8 SEP. 1970:
Stn's 258-256, 261-259

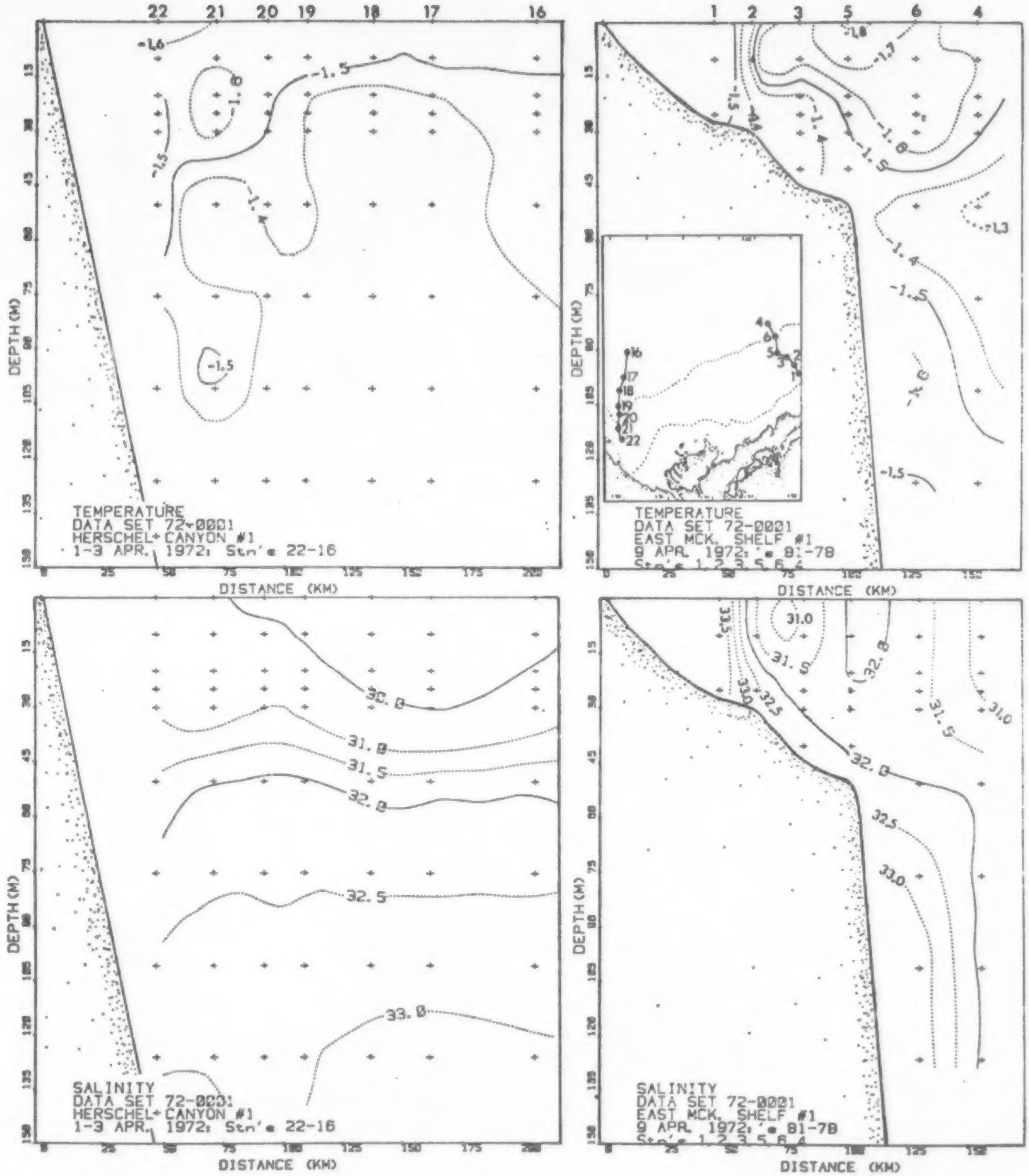

31.0
30.5
31.5
31.0
32.0
32.5
DEPTH (M)
15 30 45 60 75 90 105 120 135 150
0 25 50 75 100 125 150
DISTANCE (KM)
SALINITY
DATA SET 70-0002
EAST MCK. SHELF #1
12-14 SEP: Stn's 262, 267-263

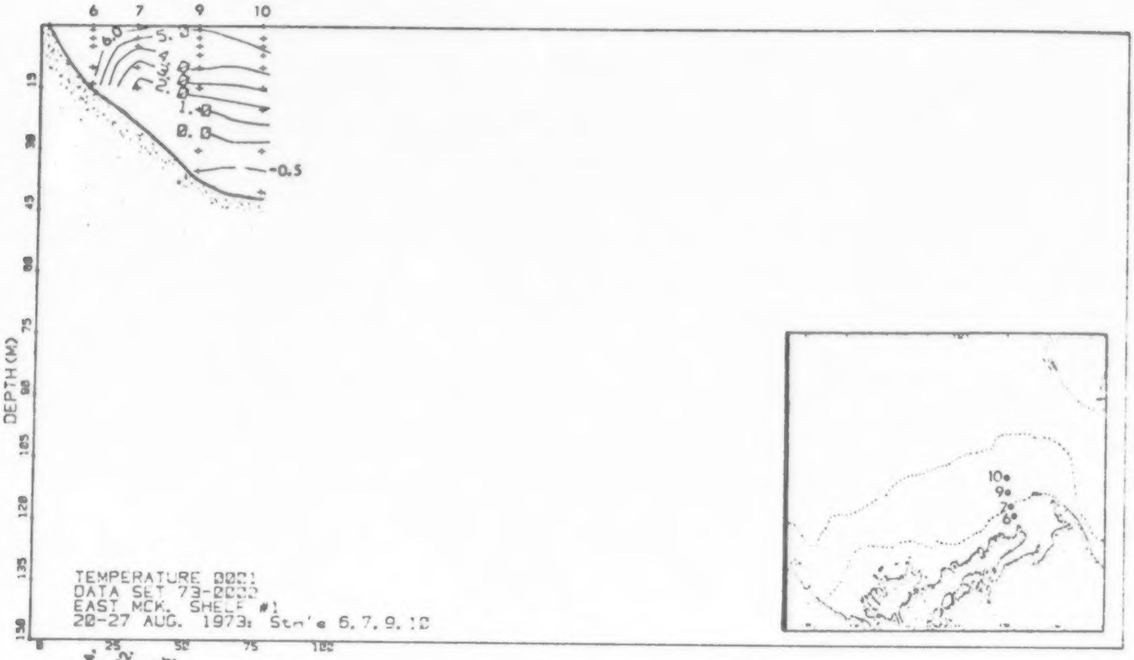


TEMPERATURE
DATA SET 72-002:
WEST YUKON #1
31 MAR. - 1 APR. 1972:
Stn's 11-15

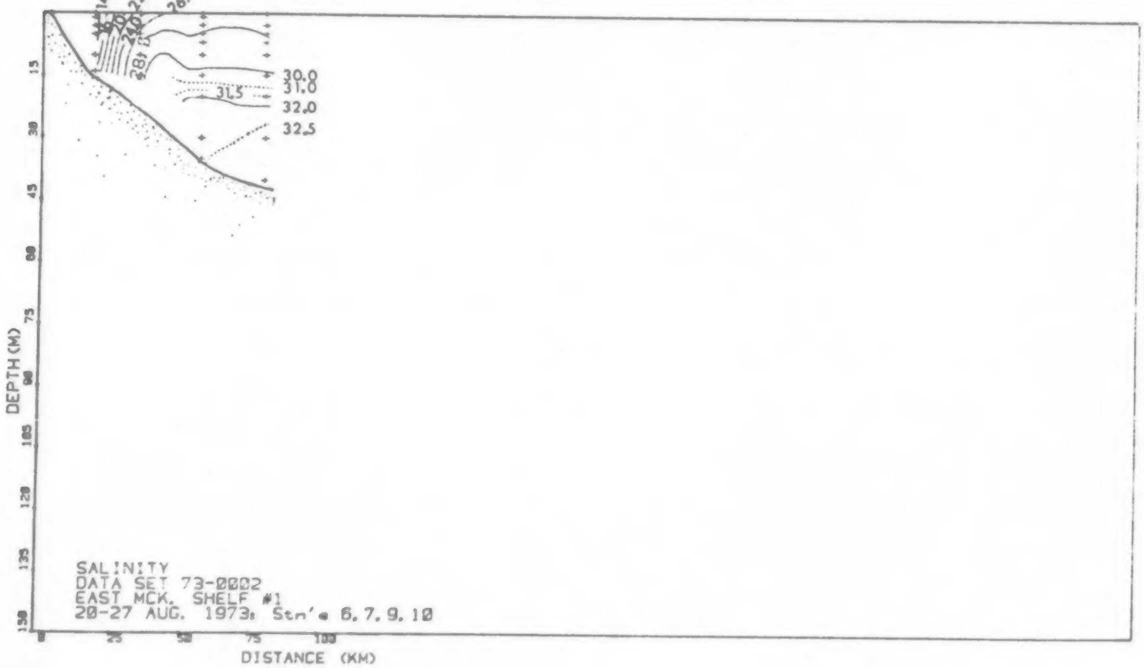


SALINITY
DATA SET 72-002:
WEST YUKON #1
31 MAR. - 1 APR. 1972:
Stn's 11-15

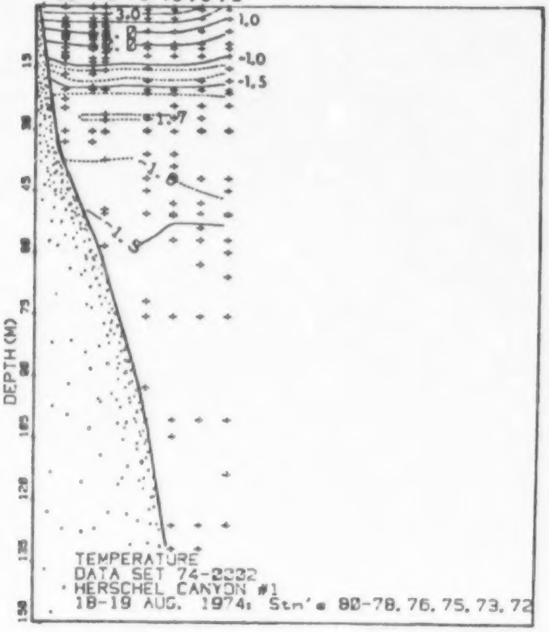

22
21
20
19
18
17
16
TEMPERATURE
DATA SET 72-0001
HERSCHEL+ CANYON #1
1-3 APR. 1972: Stn's 22-16
DEPTH (M)
DISTANCE (KM)
-1.6
-1.5
-1.8
-1.4
1
2
3
5
6
4
TEMPERATURE
DATA SET 72-0001
EAST MCK. SHELF #1
9 APR. 1972: 's 81-78
Stn's 1,2,3,5,6,4
-1.3
SALINITY
DATA SET 72-0001
HERSCHEL+ CANYON #1
1-3 APR. 1972: Stn's 22-16
30.0
31.0
31.5
32.0
32.5
33.0
SALINITY
DATA SET 72-0001
EAST MCK. SHELF #1
9 APR. 1972: 's 81-78
Stn's 1,2,3,5,6,4
33.5
31.0
31.5
32.0
32.5
33.0

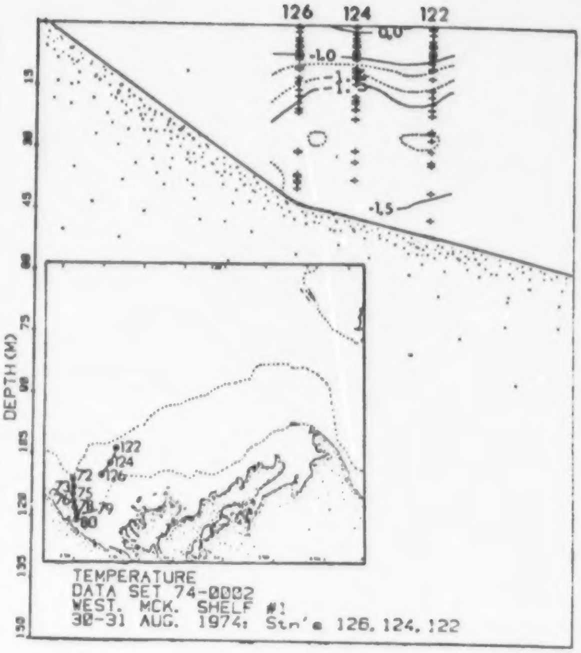


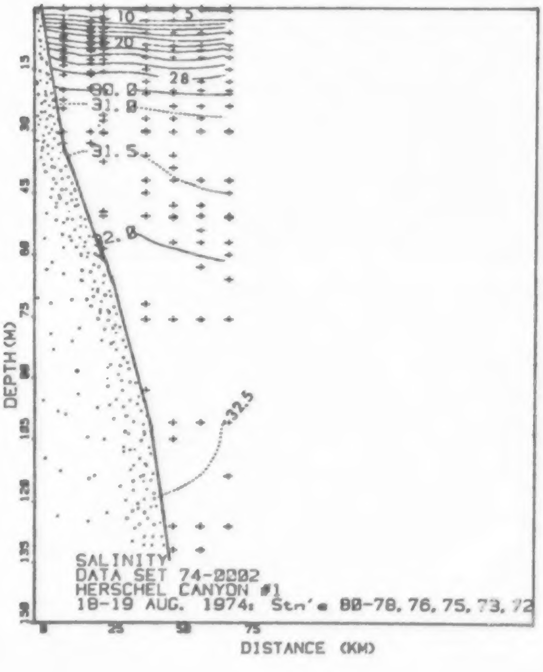
TEMPERATURE 0001
DATA SET 73-0002
EAST MCK. SHELF #1
20-27 AUG. 1973: Stn's 6, 7, 9, 10

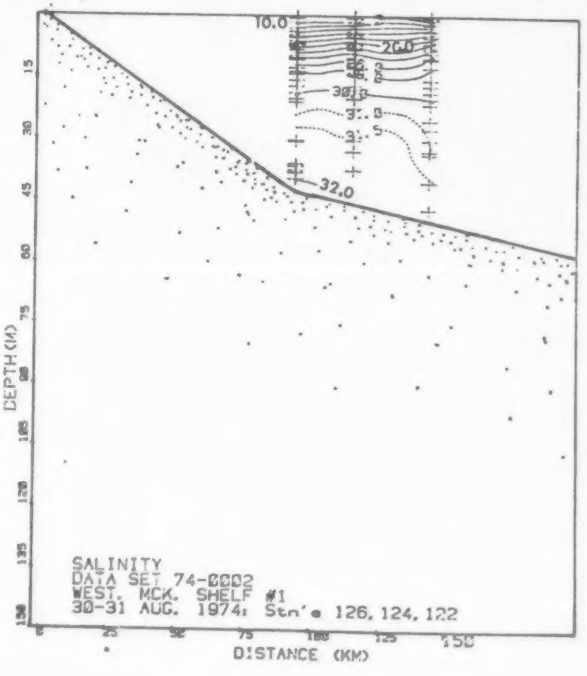


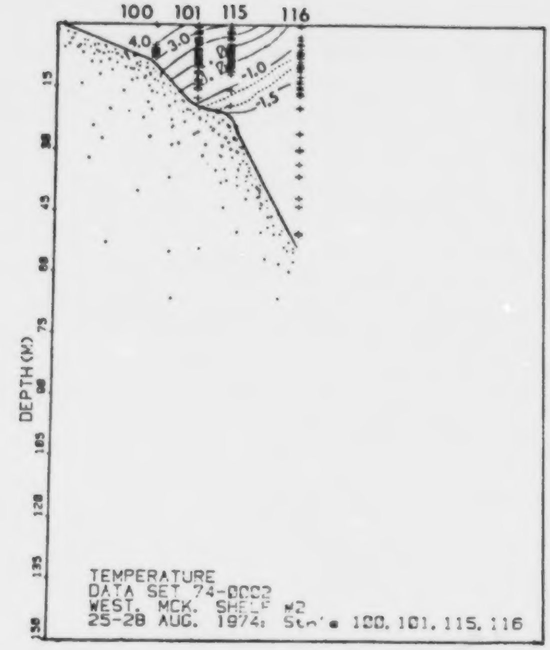
SALINITY
DATA SET 73-0002
EAST MCK. SHELF #1
20-27 AUG. 1973: Stn's 6, 7, 9, 10


80 79 76 75 73 72
3.0
1.0
-1.0
-1.5
-1.7
-1.0
-1.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
TEMPERATURE
DATA SET 74-0002
HERSCHEL CANYON #1
18-19 AUG. 1974: Stn's 80-78, 76, 75, 73, 72

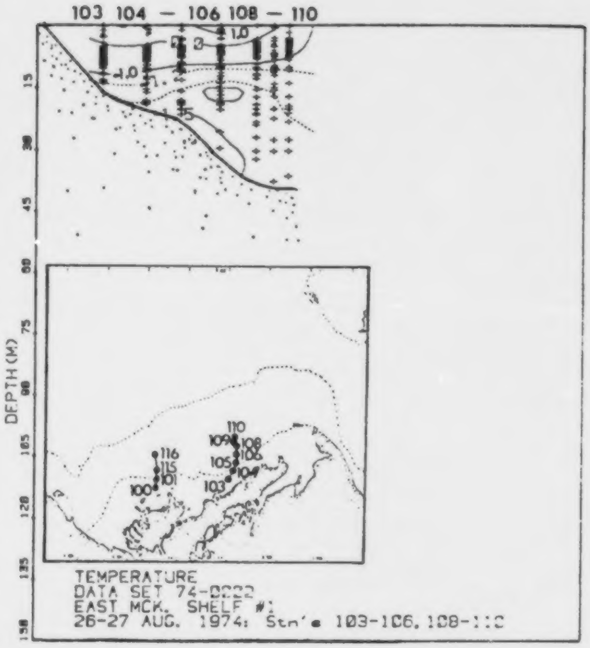

126 124 122
0.0
-1.0
-1.5
-1.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
122
124
126
72
73
75
76
78
79
80
TEMPERATURE
DATA SET 74-0002
WEST. MCK. SHELF #1
30-31 AUG. 1974: Stn's 126, 124, 122


10
5
20
28
30.0
31.0
31.5
32.0
32.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
DISTANCE (KM)
SALINITY
DATA SET 74-0002
HERSCHEL CANYON #1
18-19 AUG. 1974: Stn's 80-78, 76, 75, 73, 72

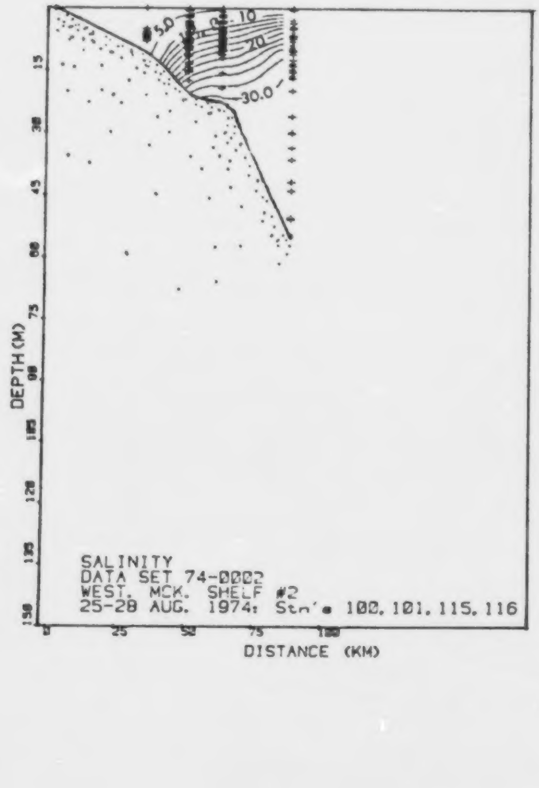

10.0
20.0
30.0
31.0
31.5
32.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
DISTANCE (KM)
SALINITY
DATA SET 74-0002
WEST. MCK. SHELF #1
30-31 AUG. 1974: Stn's 126, 124, 122



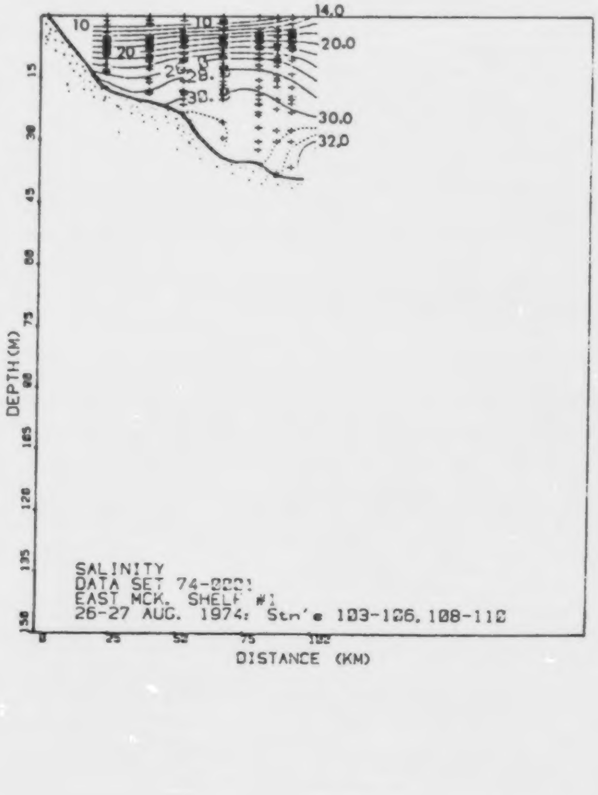
TEMPERATURE
DATA SET 74-0002
WEST. MCK. SHELF #2
25-28 AUG. 1974: Stn's 100. 101. 115. 116



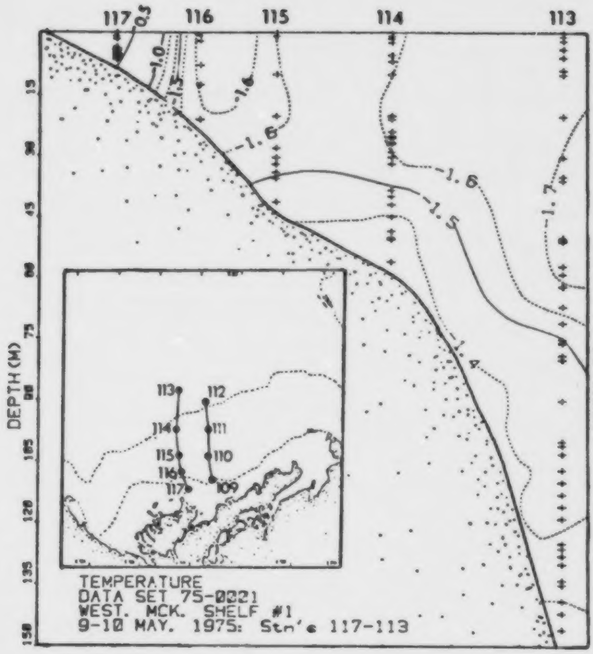
TEMPERATURE
DATA SET 74-0002
EAST MCK. SHELF #1
26-27 AUG. 1974: Stn's 103-106. 108-110

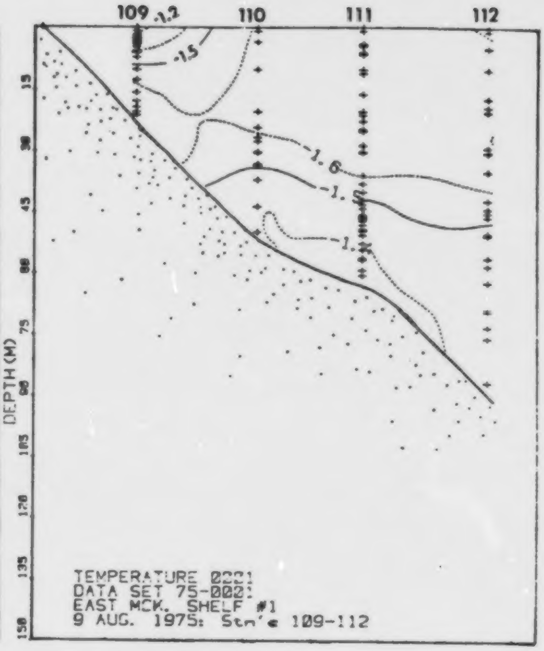


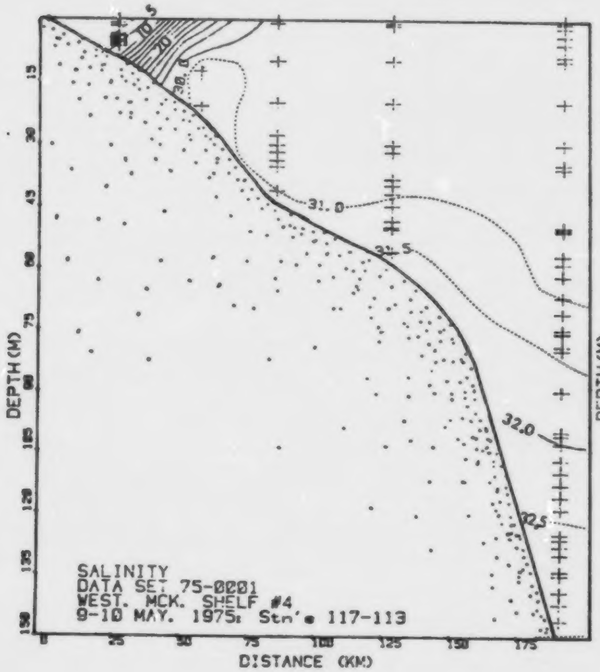
SALINITY
DATA SET 74-0002
WEST. MCK. SHELF #2
25-28 AUG. 1974: Stn's 100. 101. 115. 116

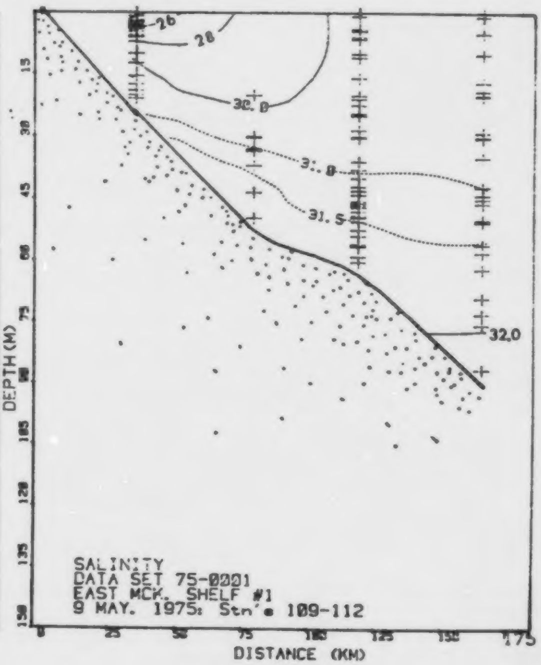


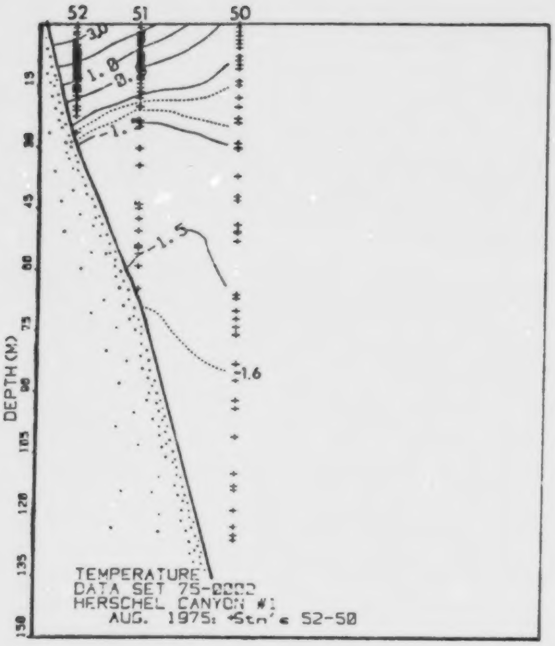
SALINITY
DATA SET 74-0001
EAST MCK. SHELF #1
26-27 AUG. 1974: Stn's 103-106. 108-110

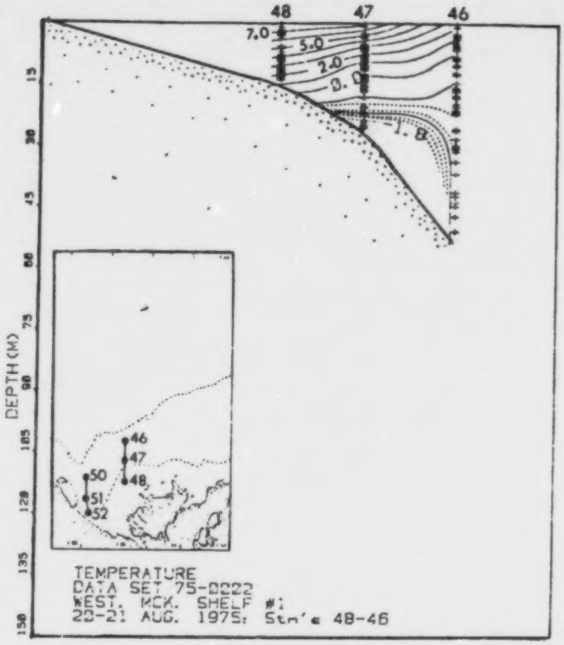

117
116
115
114
113
0.5
-1.0
-1.5
-1.6
-1.6
-1.5
-1.7
-1.4
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
113
112
114
111
115
110
116
117
109
TEMPERATURE
DATA SET 75-0021
WEST. MCK. SHELF #1
9-10 MAY. 1975: Stn's 117-113

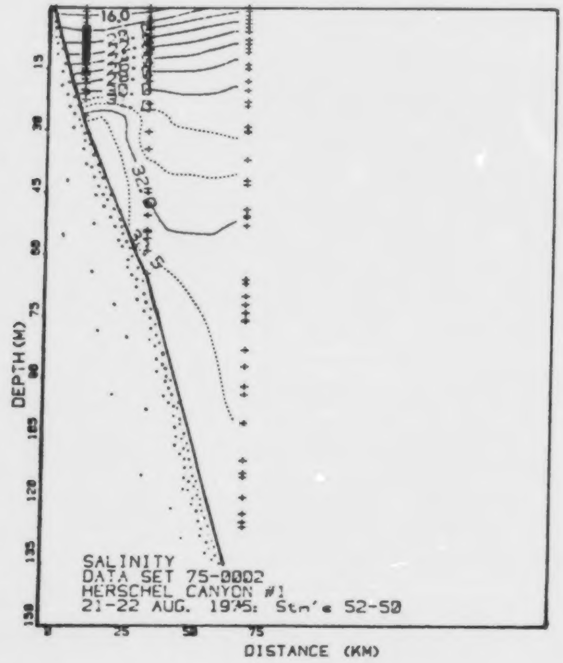

109
110
111
112
-1.2
-1.5
-1.6
-1.6
-1.7
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
TEMPERATURE 0001
DATA SET 75-0001
EAST MCK. SHELF #1
9 AUG. 1975: Stn's 109-112

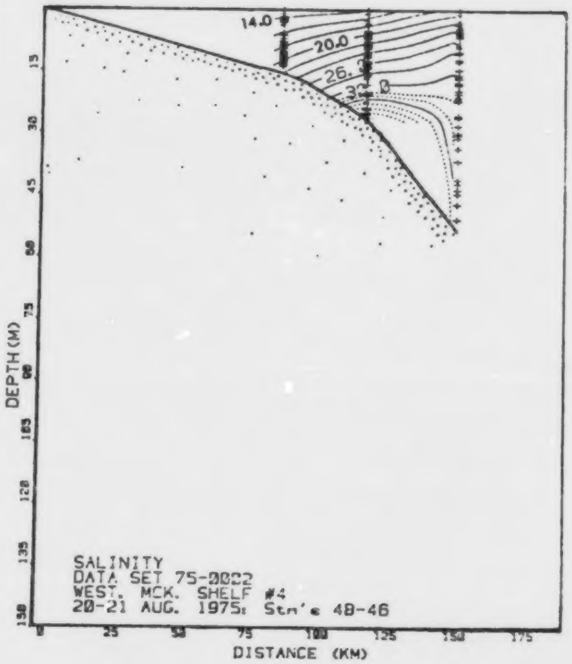

5
10
20
30.0
31.0
31.5
32.0
32.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 75-0001
WEST. MCK. SHELF #4
9-10 MAY. 1975: Stn's 117-113
0
25
50
75
100
125
150
175
DISTANCE (KM)

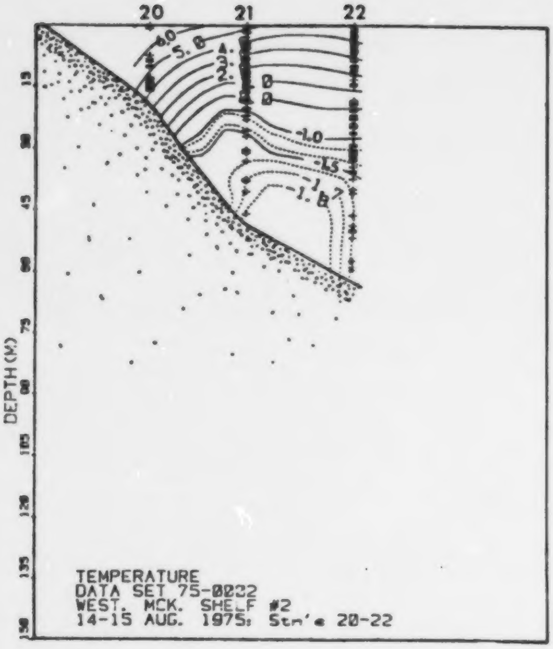

26
28
30.0
31.0
31.5
32.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 75-0001
EAST MCK. SHELF #1
9 MAY. 1975: Stn's 109-112
0
25
50
75
100
125
150
175
DISTANCE (KM)

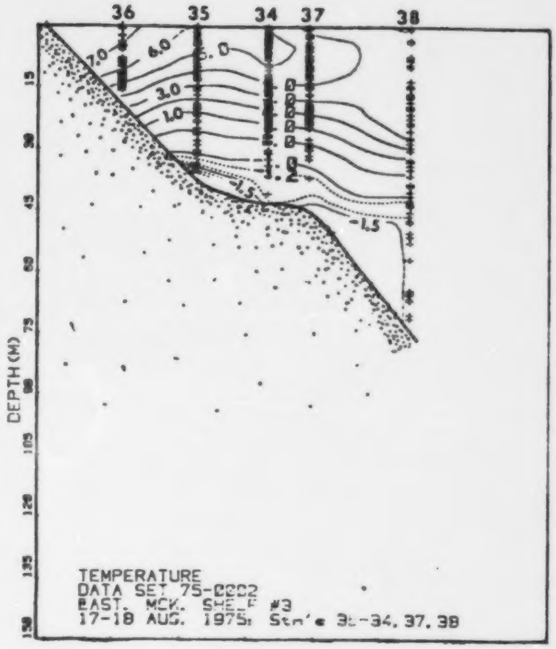

52
51
50
3.0
1.8
0.0
-1.5
-1.5
-1.6
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
TEMPERATURE
DATA SET 75-0002
HERSCHEL CANYON #1
AUG. 1975: Stn's 52-50

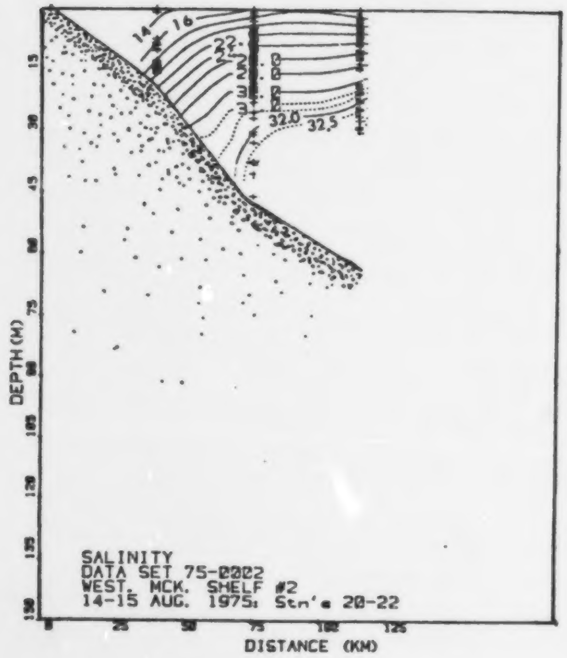

48
47
46
7.0
5.0
2.0
0.0
-1.8
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
46
47
48
50
51
52
TEMPERATURE
DATA SET 75-0002
WEST. MCK. SHELF #1
20-21 AUG. 1975: Stn's 48-46

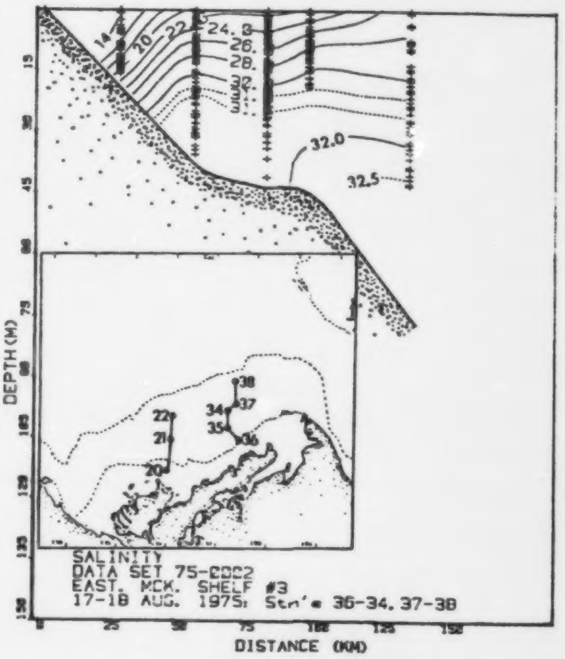

16.0
32.0
31.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 75-0002
HERSCHEL CANYON #1
21-22 AUG. 1975: Stn's 52-50
0
25
50
75
DISTANCE (KM)

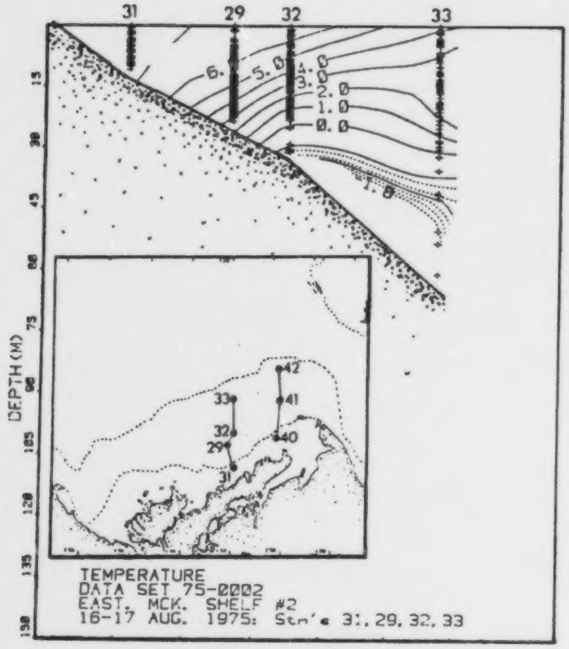

14.0
20.0
26.0
32.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 75-0002
WEST. MCK. SHELF #4
20-21 AUG. 1975: Stn's 48-46
0
25
50
75
100
125
150
175
DISTANCE (KM)


20
21
22
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
6.0
5.8
4.
3.
2.
0
0
-1.0
-1.5
-1.8
TEMPERATURE
DATA SET 75-0002
WEST. MCK. SHELF #2
14-15 AUG. 1975: Stn's 20-22

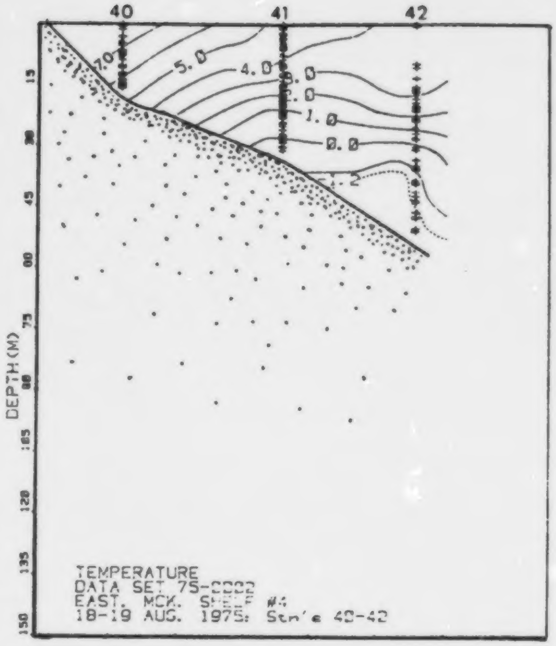

36
35
34
37
38
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
7.0
6.0
5.0
3.0
1.0
0
0
0
0
-1.0
-1.2
-1.5
-1.5
TEMPERATURE
DATA SET 75-0002
EAST. MCK. SHELF #3
17-18 AUG. 1975: Stn's 36-34, 37, 38


DEPTH (M)
15
30
45
60
75
90
105
120
135
150
14
16
22
24.0
28.0
30.0
32.0
32.5
SALINITY
DATA SET 75-0002
WEST. MCK. SHELF #2
14-15 AUG. 1975: Stn's 20-22
0
25
50
75
100
125
DISTANCE (KM)

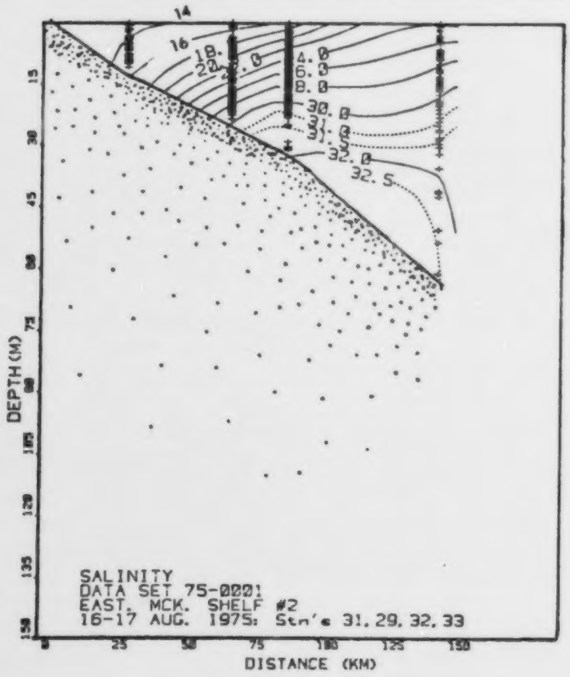

DEPTH (M)
15
30
45
60
75
90
105
120
135
150
14
20
22
24.0
26.
28.
30.
32.0
32.5
38
37
34
35
36
22
21
20
SALINITY
DATA SET 75-0002
EAST. MCK. SHELF #3
17-18 AUG. 1975: Stn's 36-34, 37-38
0
25
50
75
100
125
150
DISTANCE (KM)



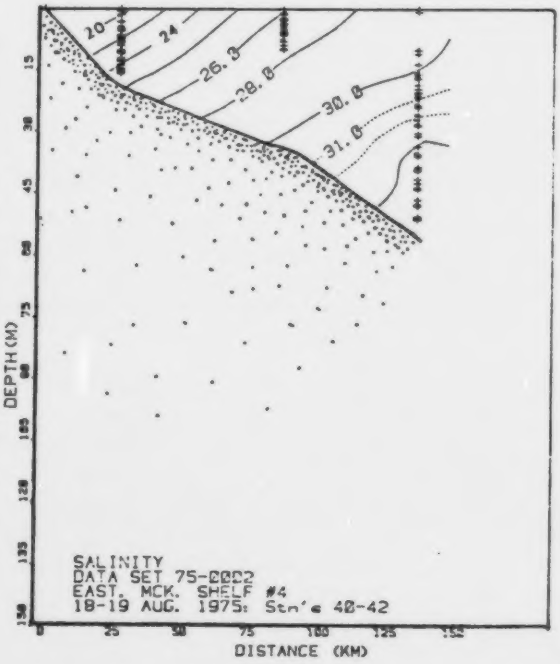
TEMPERATURE
DATA SET 75-0002
EAST. MCK. SHELF #2
16-17 AUG. 1975: Stn's 31, 29, 32, 33



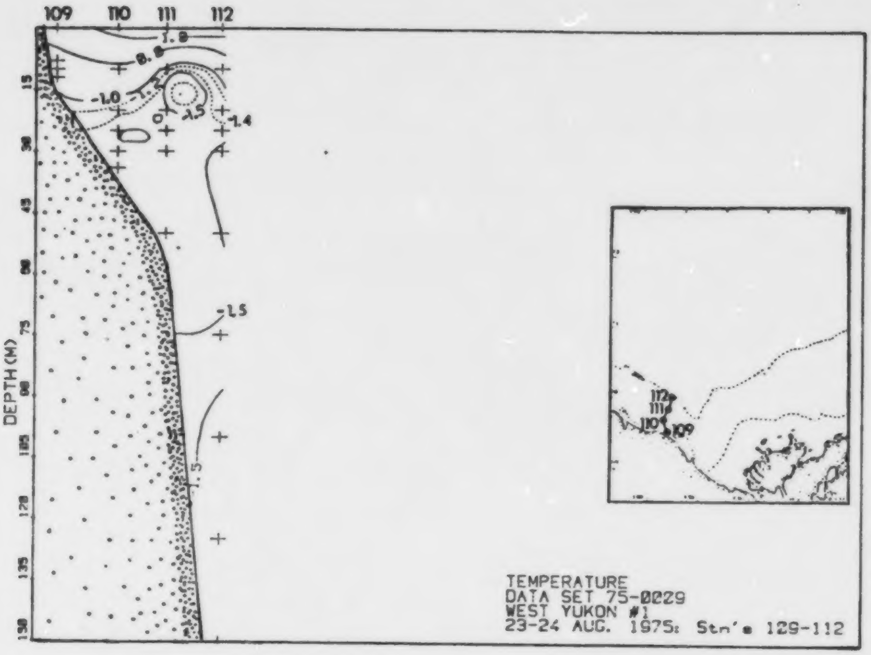
TEMPERATURE
DATA SET 75-0002
EAST. MCK. SHELF #4
18-19 AUG. 1975: Stn's 40-42



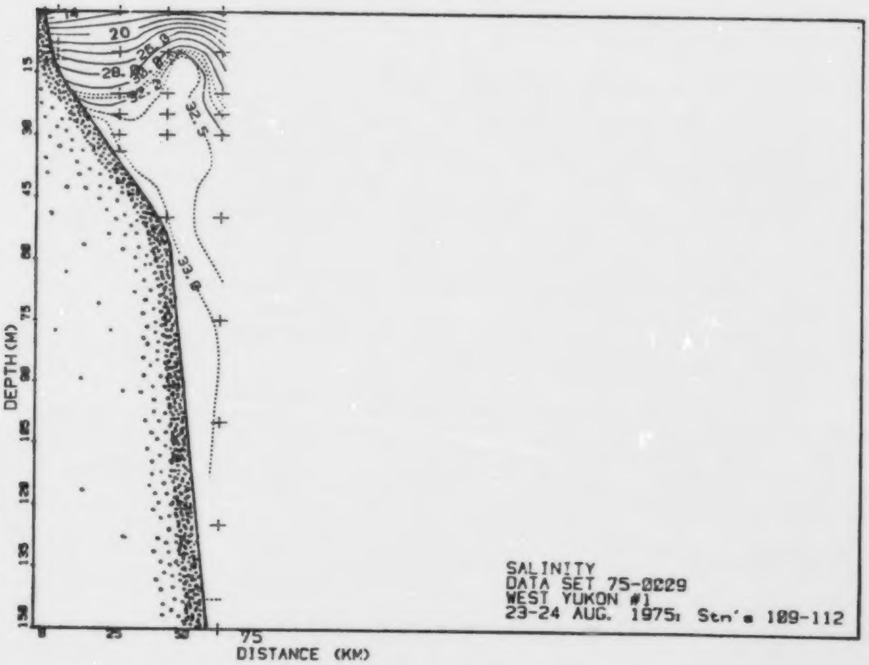
SALINITY
DATA SET 75-0001
EAST. MCK. SHELF #2
16-17 AUG. 1975: Stn's 31, 29, 32, 33



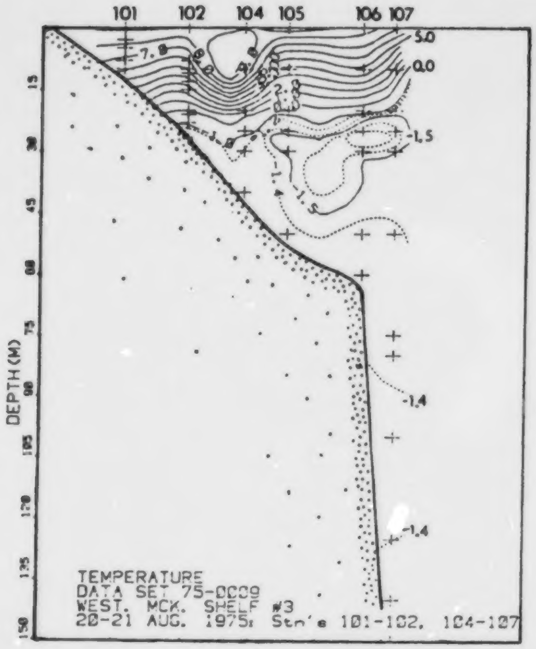
SALINITY
DATA SET 75-0002
EAST. MCK. SHELF #4
18-19 AUG. 1975: Stn's 40-42

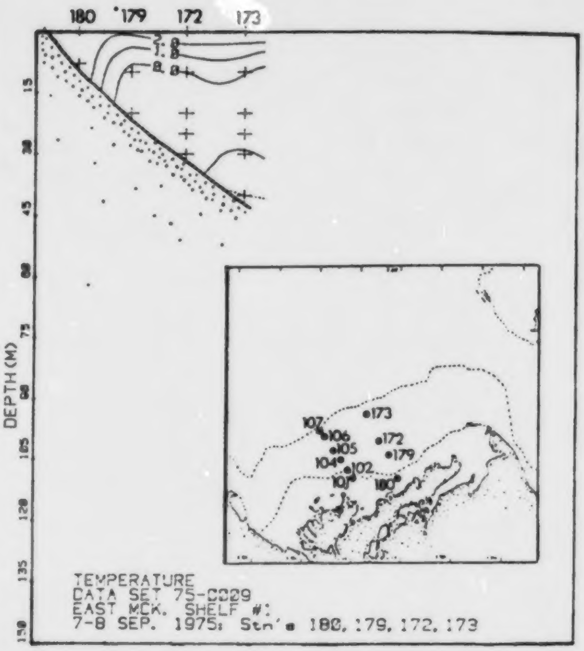


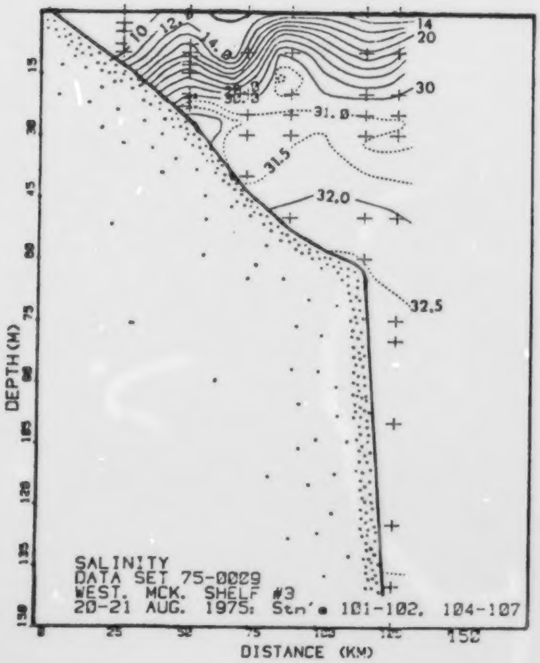
TEMPERATURE
DATA SET 75-0029
WEST YUKON #1
23-24 AUG. 1975; Stn's 109-112

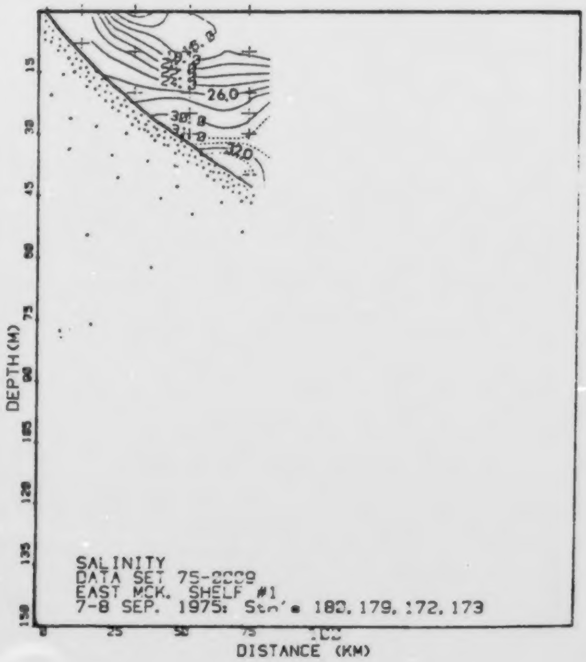


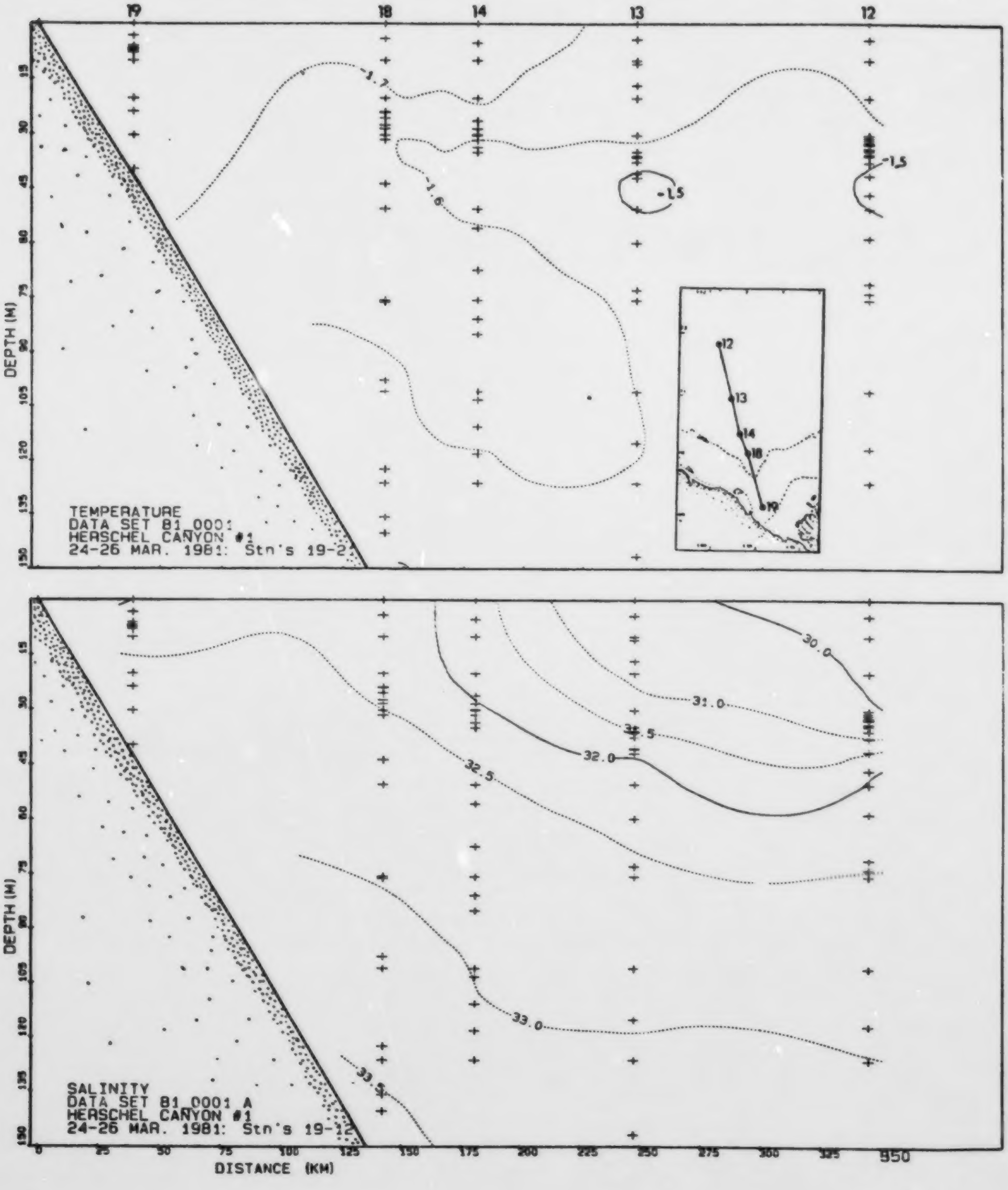
SALINITY
DATA SET 75-0029
WEST YUKON #1
23-24 AUG. 1975; Stn's 109-112

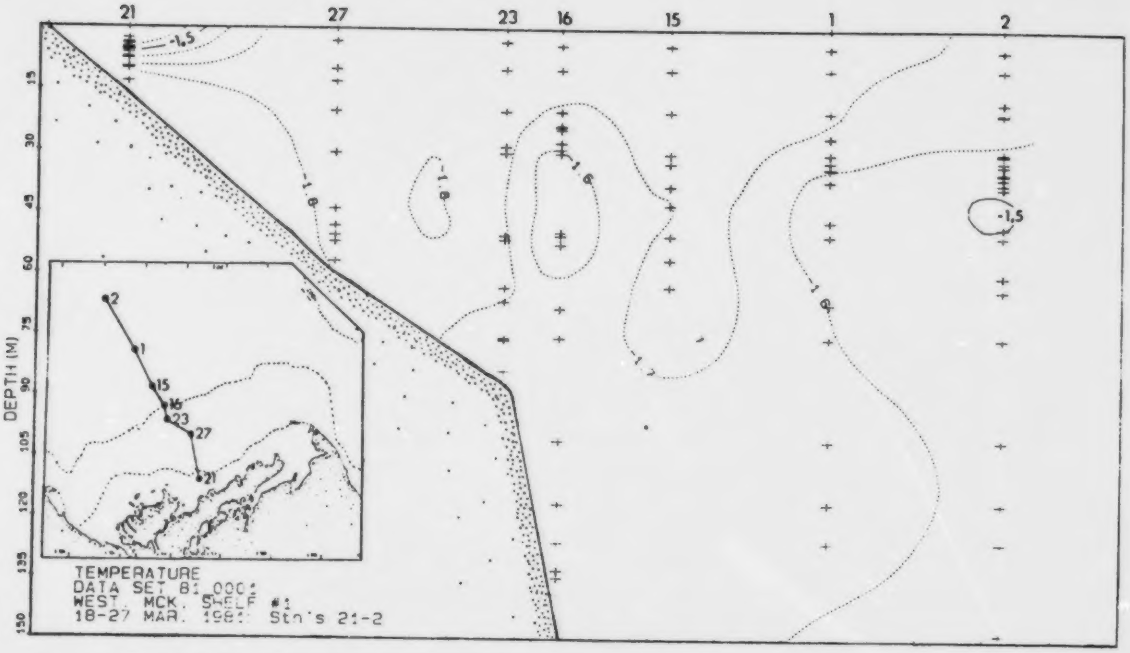

TEMPERATURE
DATA SET 75-0009
WEST. MCK. SHELF #3
20-21 AUG. 1975: Stn's 101-102, 104-107

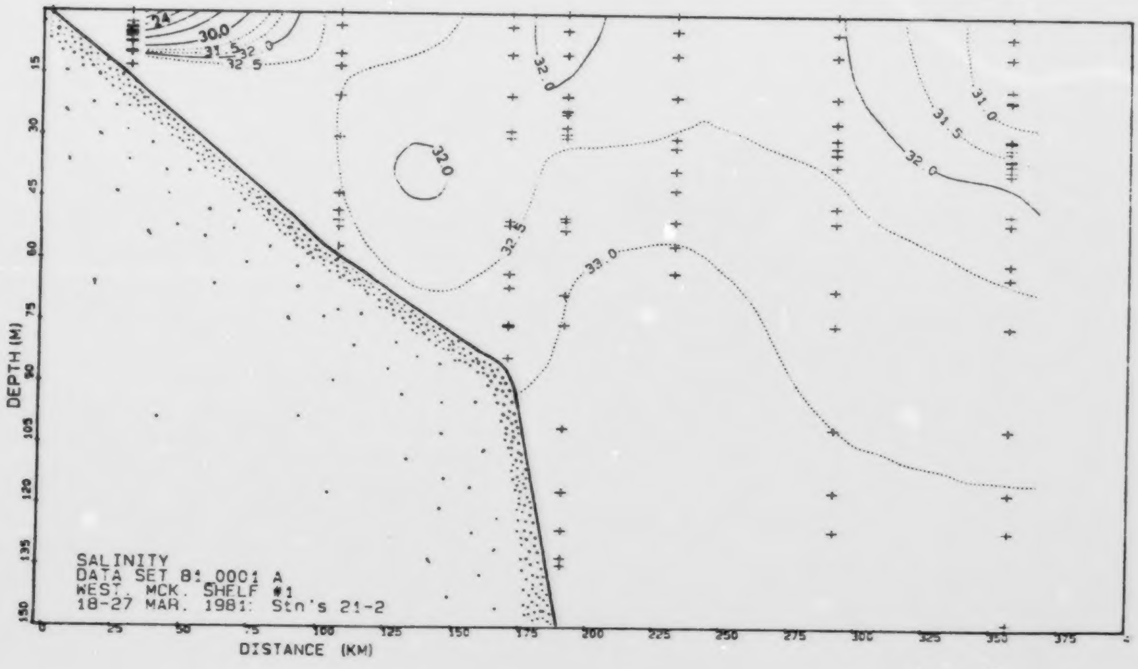

TEMPERATURE
DATA SET 75-0009
EAST MCK. SHELF #1
7-8 SEP. 1975: Stn's 180, 179, 172, 173

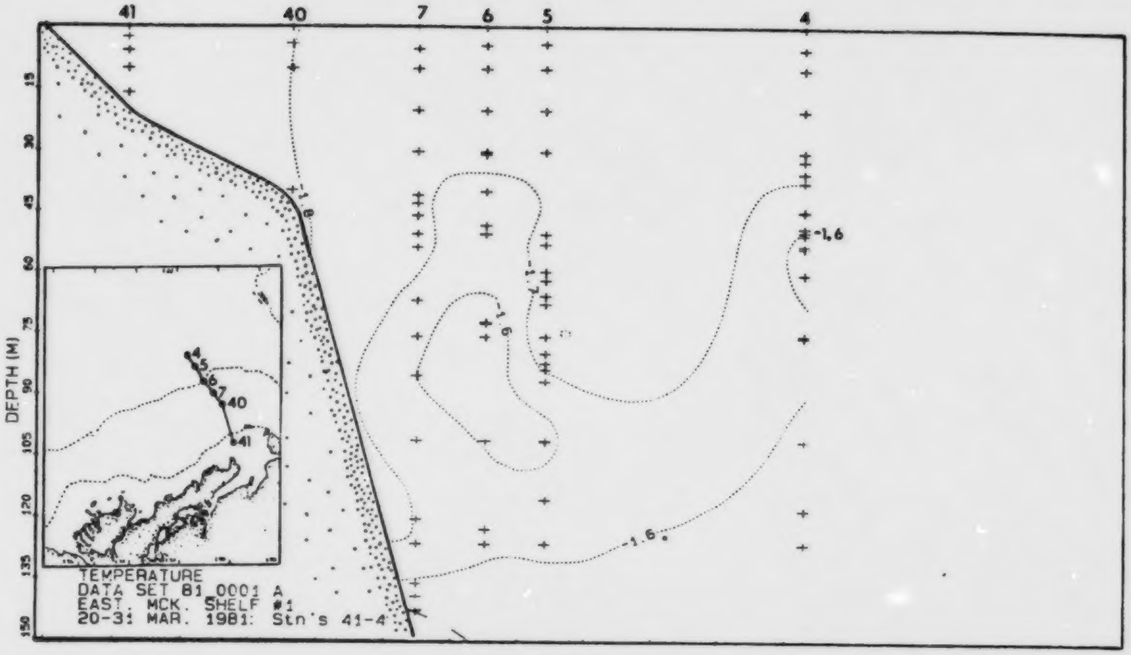

SALINITY
DATA SET 75-0009
WEST. MCK. SHELF #3
20-21 AUG. 1975: Stn's 101-102, 104-107

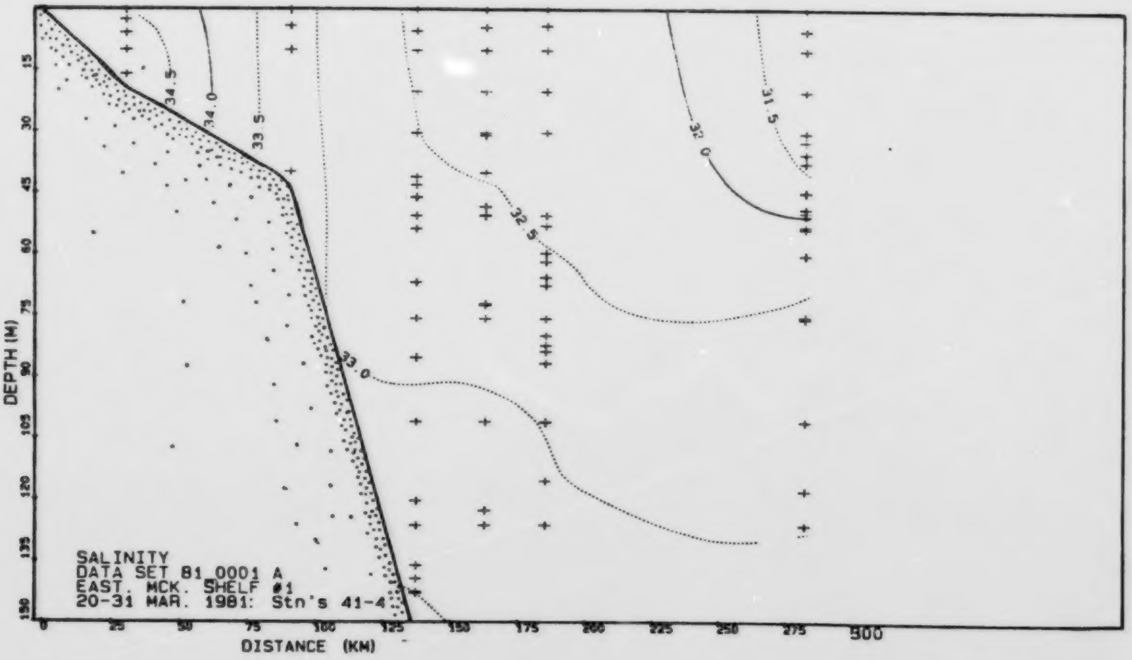

SALINITY
DATA SET 75-0009
EAST MCK. SHELF #1
7-8 SEP. 1975: Stn's 180, 179, 172, 173

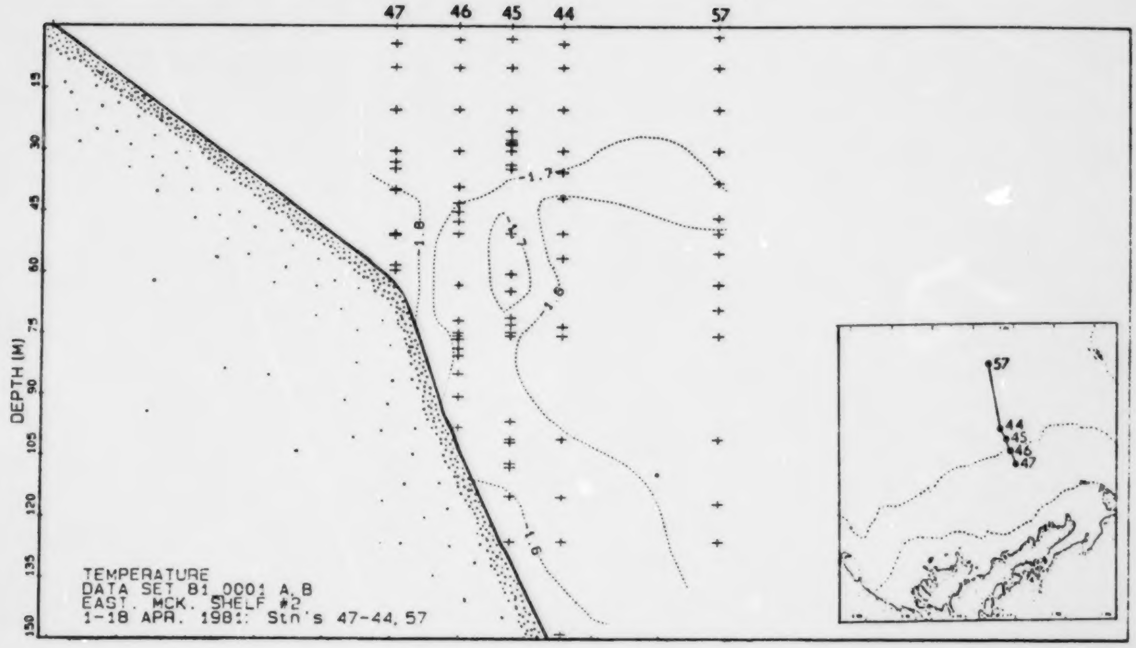

19
18
14
13
12
-1.7
-1.6
-1.5
-1.5
12
13
14
18
19
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
TEMPERATURE
DATA SET 81 0001
HERSCHEL CANYON #1
24-26 MAR. 1981: Stn's 19-2
30.0
31.0
31.5
32.0
32.5
33.0
33.5
SALINITY
DATA SET 81 0001 A
HERSCHEL CANYON #1
24-26 MAR. 1981: Stn's 19-12
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
DISTANCE (KM)

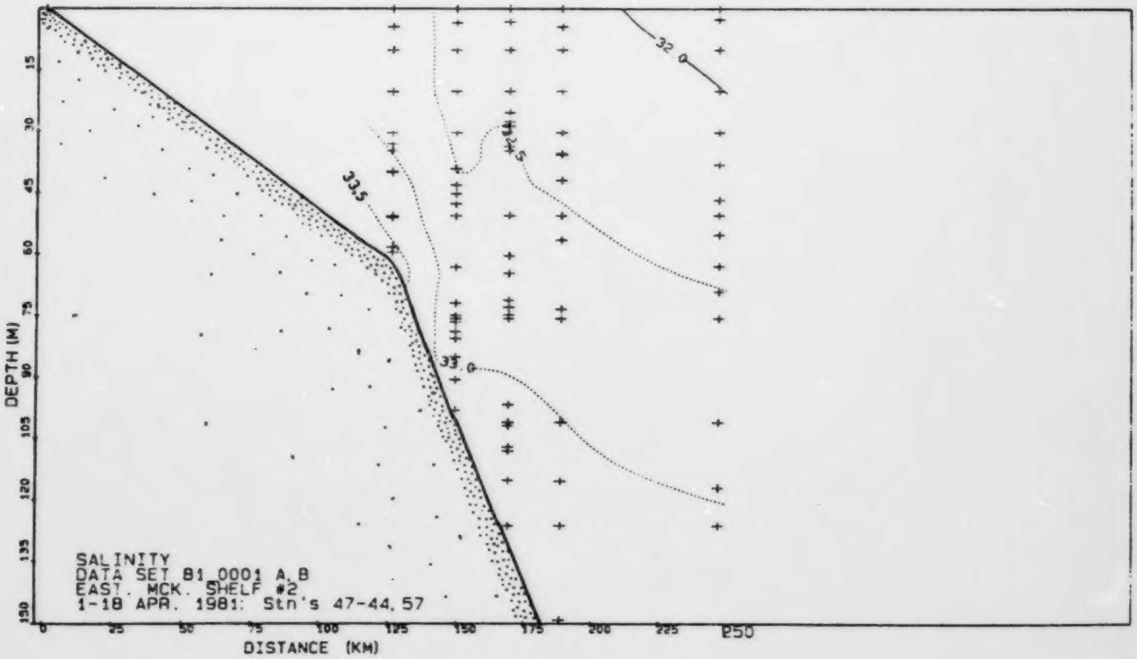

21
27
23
16
15
1
2
-1.5
-1.8
-1.8
-1.6
-1.5
-1.6
-1.7
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
2
1
15
16
23
27
21
TEMPERATURE
DATA SET 81 0001
WEST. MCK. SHELF #1
18-27 MAR. 1981: Stn's 21-2

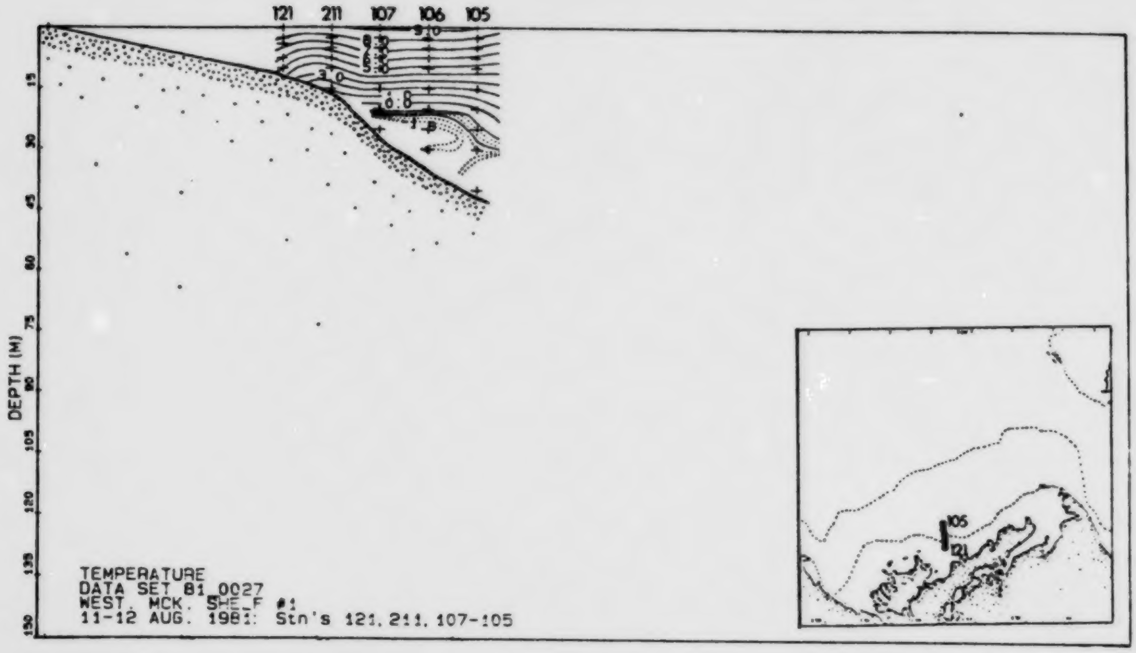

24
30.0
31.5
32
32.5
32.0
32.0
32.5
33.0
31.0
31.5
32.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 81 0001 A
WEST. MCK. SHELF #1
18-27 MAR. 1981: Stn's 21-2
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
375
DISTANCE (KM)


41
40
7
6
5
4
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
-1.8
-1.7
-1.6
-1.6
-1.6
4
5
6
7
40
41
TEMPERATURE
DATA SET 81 0001 A
EAST. MCK. SHELF #1
20-31 MAR. 1981: Stn's 41-4

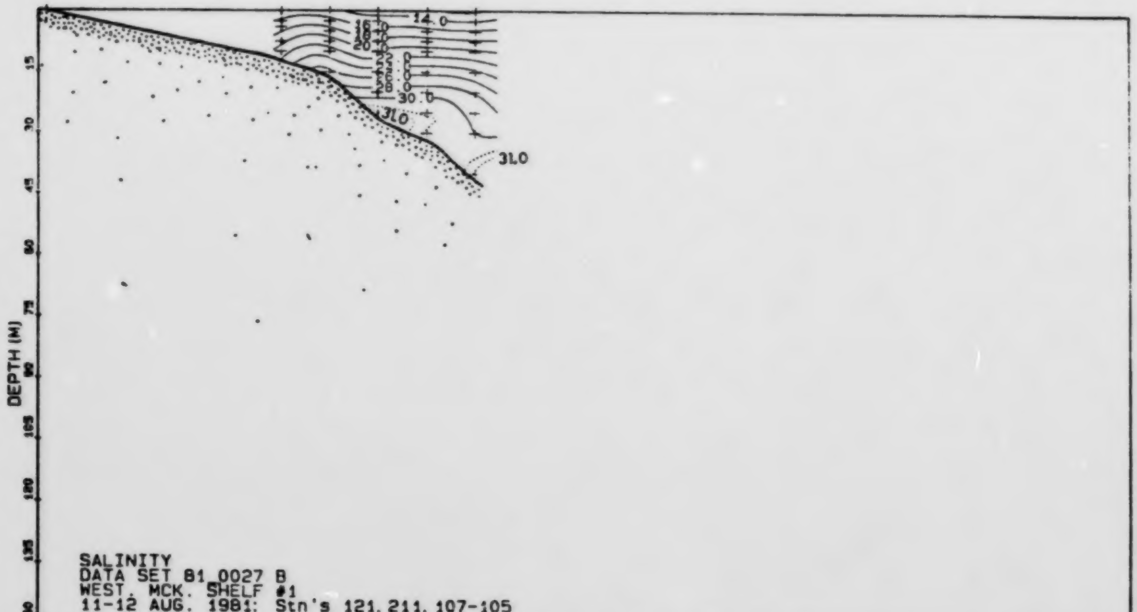

DEPTH (M)
15
30
45
60
75
90
105
120
135
150
34.5
34.0
33.5
32.5
33.0
32.0
31.5
SALINITY
DATA SET 81 0001 A
EAST. MCK. SHELF #1
20-31 MAR. 1981: Stn's 41-4
0
25
50
75
100
125
150
175
200
225
250
275
300
DISTANCE (KM)


47
46
45
44
57
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
-1.7
-1.8
-1.7
-1.6
-1.6
TEMPERATURE
DATA SET 81_0001 A,B
EAST. MCK. SHELF #2
1-18 APR. 1981: Stn's 47-44, 57

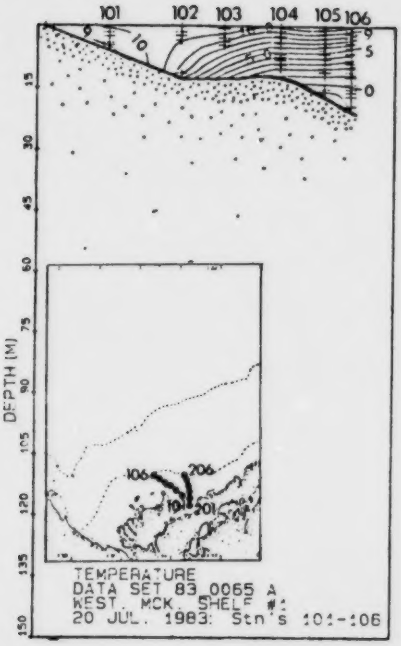

DEPTH (M)
15
30
45
60
75
90
105
120
135
150
32.0
33.5
33.5
33.0
SALINITY
DATA SET 81_0001 A,B
EAST. MCK. SHELF #2
1-18 APR. 1981: Stn's 47-44, 57
0
25
50
75
100
125
150
175
200
225
250
DISTANCE (KM)

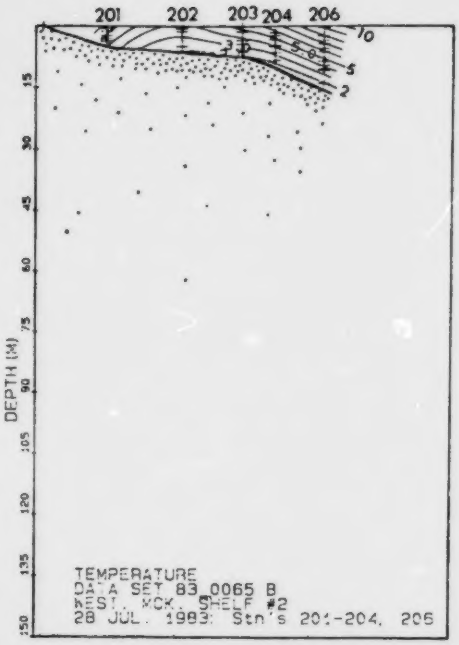


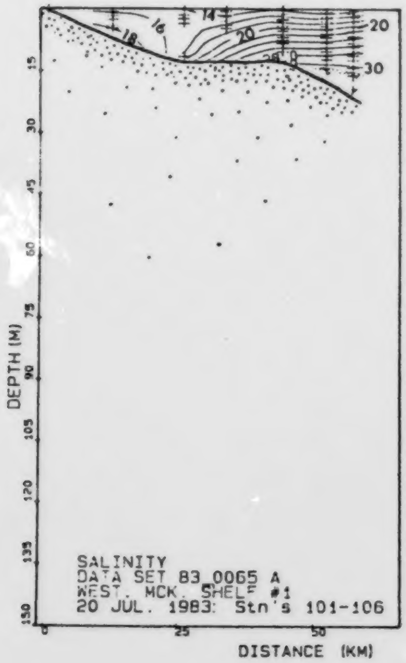
121
211
107
106
105
9.0
8.0
7.0
6.0
5.0
3.0
0.8
-1.8
15
30
45
60
75
90
105
120
135
150
DEPTH (M)
105
121
TEMPERATURE
DATA SET 81 0027
WEST. MCK. SHELF #1
11-12 AUG. 1981: Stn's 121, 211, 107-105

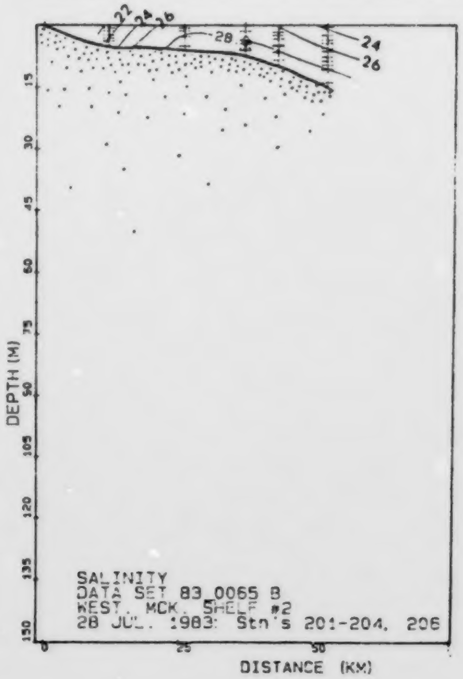


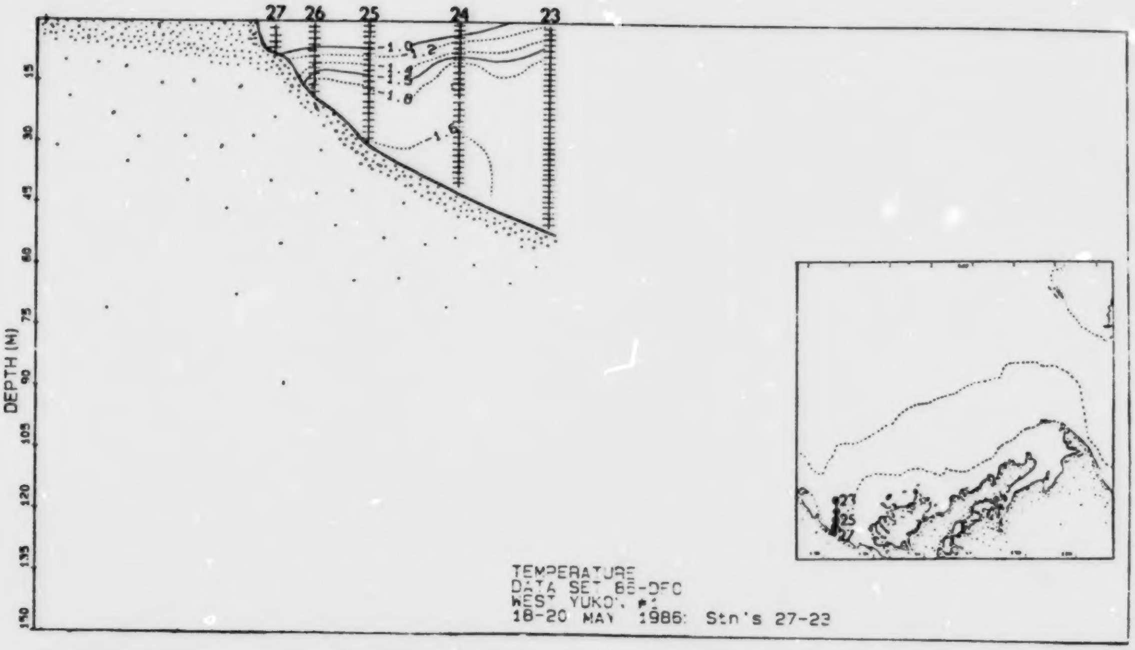
14.0
16.0
18.0
20.0
22.0
24.0
26.0
28.0
30.0
31.0
31.0
15
30
45
60
75
90
105
120
135
150
DEPTH (M)
SALINITY
DATA SET 81 0027 B
WEST. MCK. SHELF #1
11-12 AUG. 1981: Stn's 121, 211, 107-105
0
25
50
75
100
DISTANCE (KM)

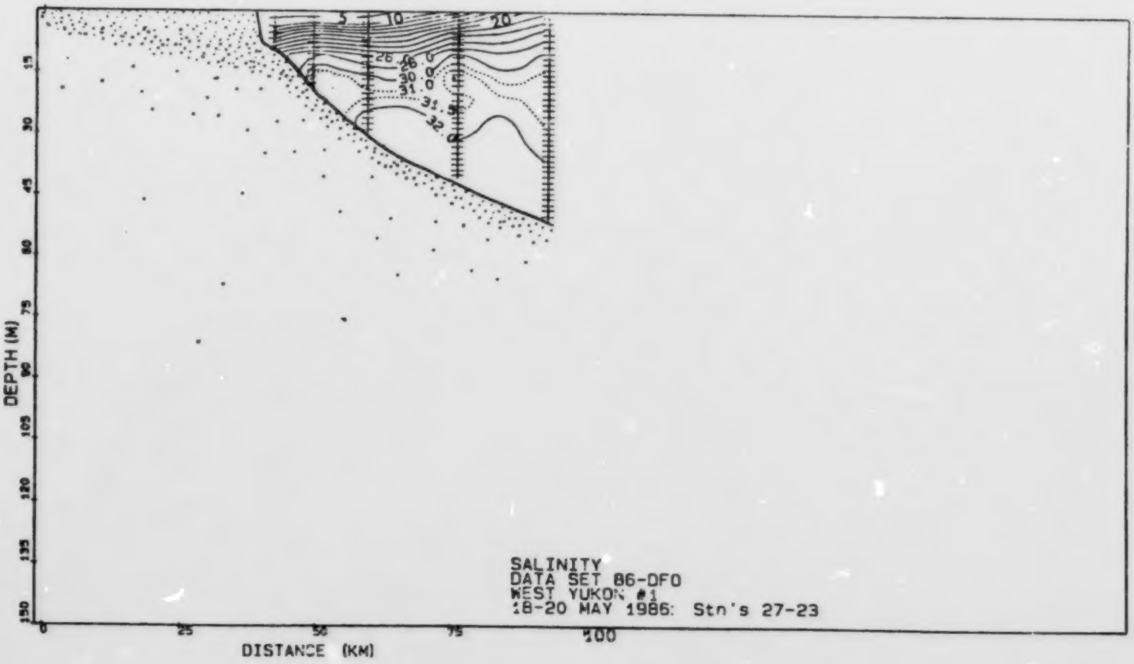

101
102
103
104
105
106
9
10
5
0
15
30
45
60
75
90
105
120
135
150
DEPTH (M)
106
206
101
201
TEMPERATURE
DATA SET 83 0065 A
WEST. MCK. SHELF #1
20 JUL. 1983: Stn's 101-106

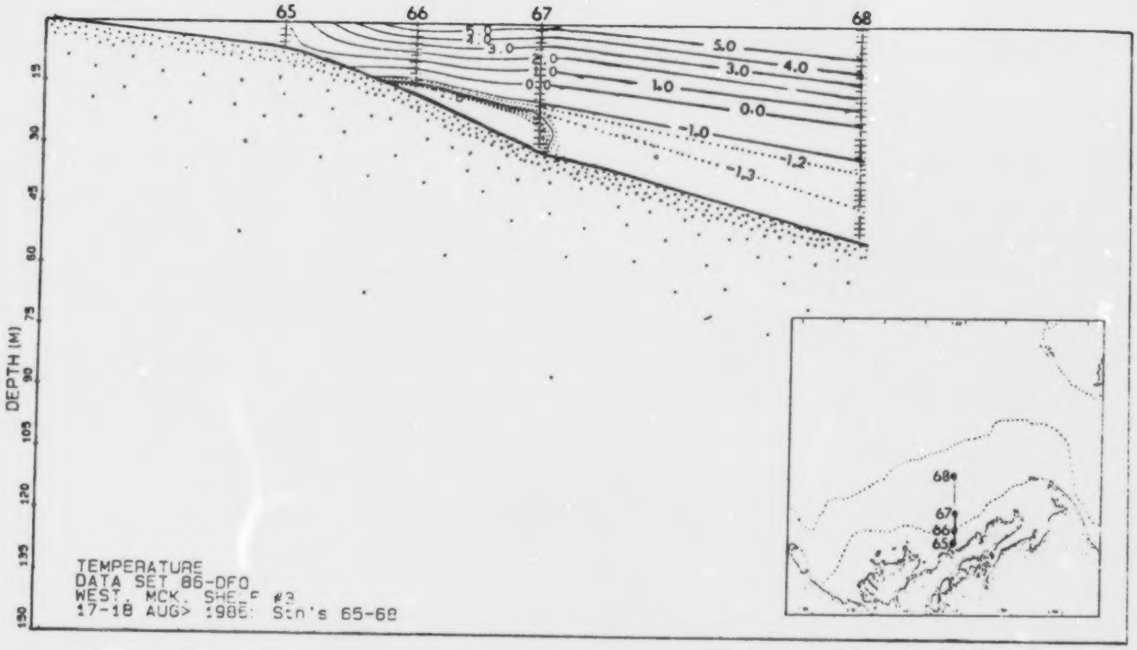

201
202
203
204
206
10
5
2
3
5
15
30
45
60
75
90
105
120
135
150
DEPTH (M)
TEMPERATURE
DATA SET 83 0065 B
WEST. MCK. SHELF #2
28 JUL. 1983: Stn's 201-204, 206

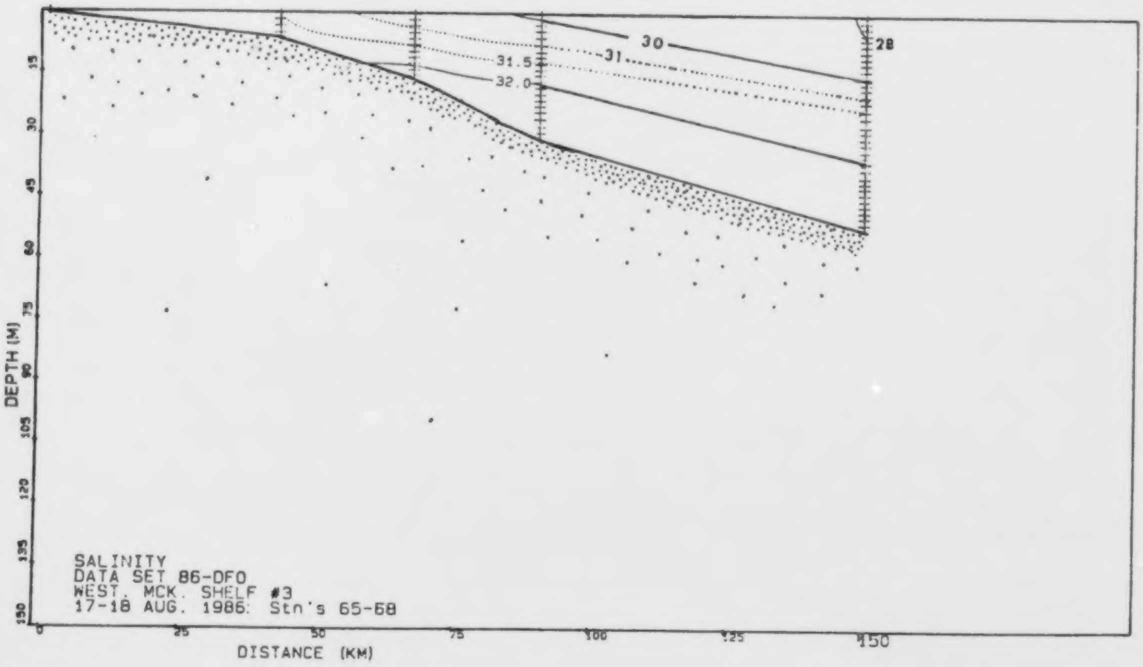

14
16
18
20
20
30
15
30
45
60
75
90
105
120
135
150
DEPTH (M)
SALINITY
DATA SET 83 0065 A
WEST. MCK. SHELF #1
20 JUL. 1983: Stn's 101-106
0
25
50
DISTANCE (KM)

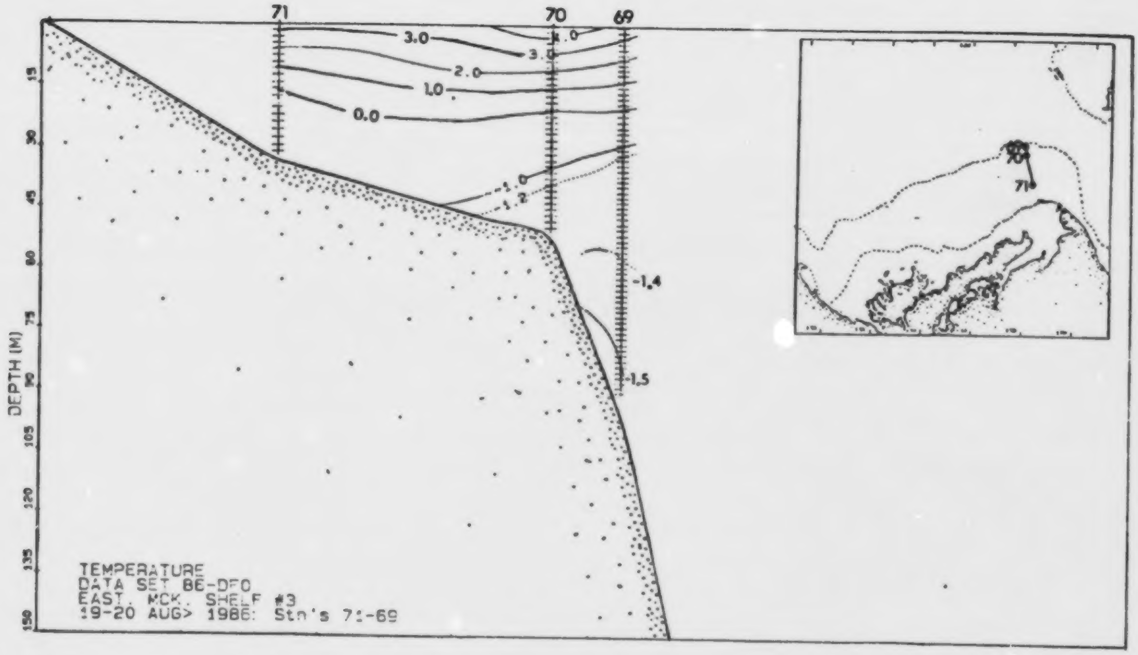

22
24
26
28
24
26
15
30
45
60
75
90
105
120
135
150
DEPTH (M)
SALINITY
DATA SET 83 0065 B
WEST. MCK. SHELF #2
28 JUL. 1983: Stn's 201-204, 206
0
25
50
DISTANCE (KM)

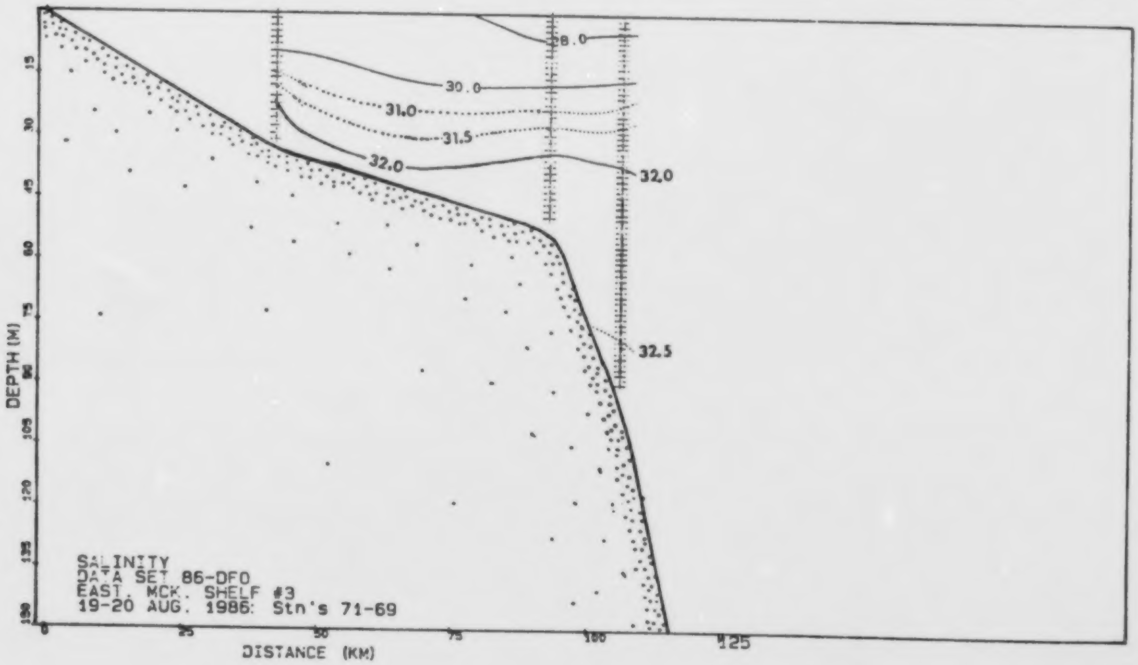

27
26
25
24
23
-1.9
1.2
-1.4
-1.5
-1.8
-1.6
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
27
25
TEMPERATURE
DATA SET 86-DFO
WEST YUKON #1
18-20 MAY 1986: Stn's 27-23

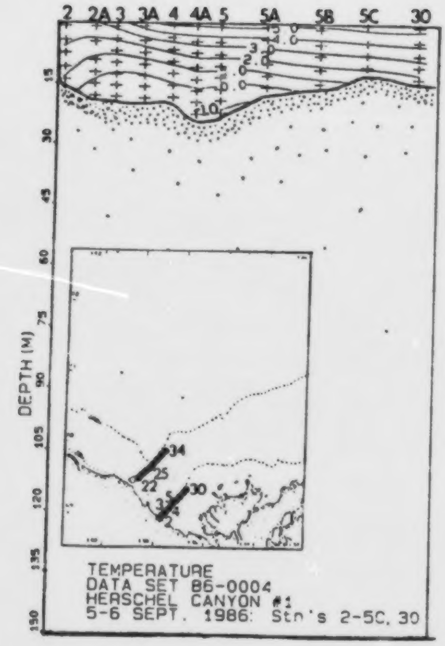

5
10
20
26
28.0
30.0
31.0
31.5
32.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 86-DFO
WEST YUKON #1
18-20 MAY 1986: Stn's 27-23
0
25
50
75
100
DISTANCE (KM)

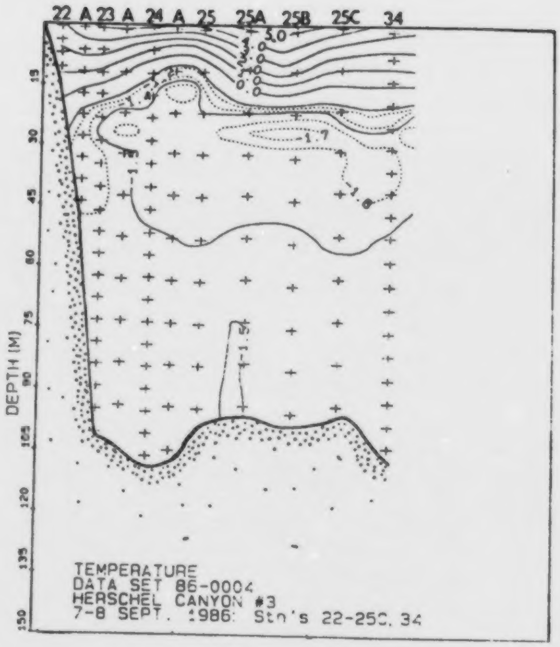

65
66
67
68
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-1.2
-1.3
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
68
67
66
65
TEMPERATURE
DATA SET 86-DFO
WEST. MCK. SHELF #3
17-18 AUG> 1986: Stn's 65-68

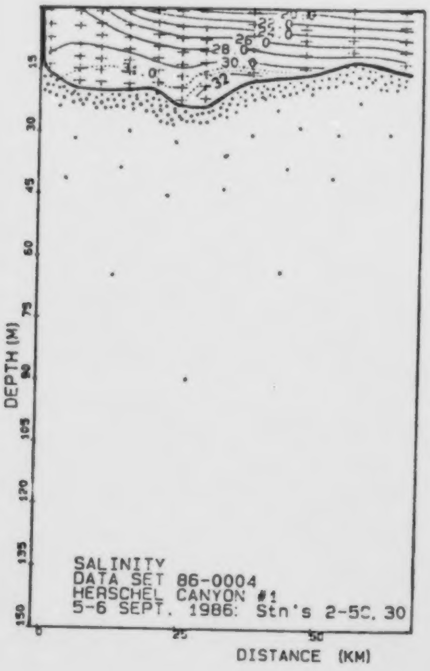

30
31
31.5
32.0
28
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 86-DFO
WEST. MCK. SHELF #3
17-18 AUG. 1986: Stn's 65-68
0
25
50
75
100
125
150
DISTANCE (KM)

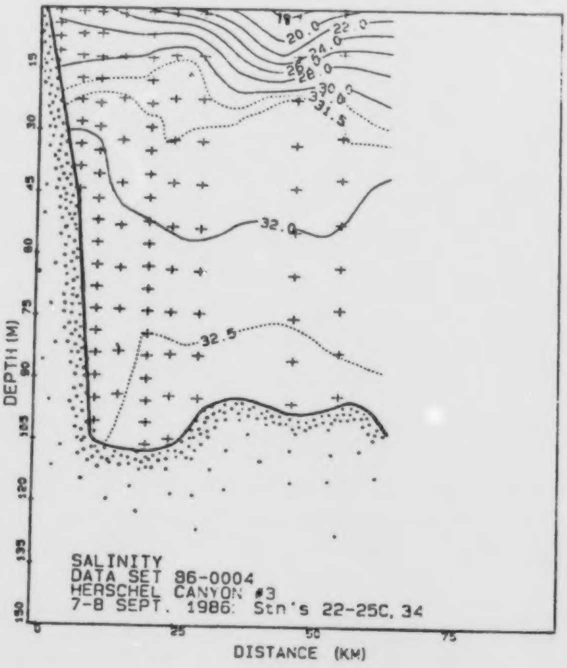

71
70
69
3.0
3.0
4.0
2.0
1.0
0.0
-1.0
-1.2
-1.4
-1.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
71
TEMPERATURE
DATA SET 86-DFO
EAST. MCK. SHELF #3
19-20 AUG> 1986: Stn's 71-69

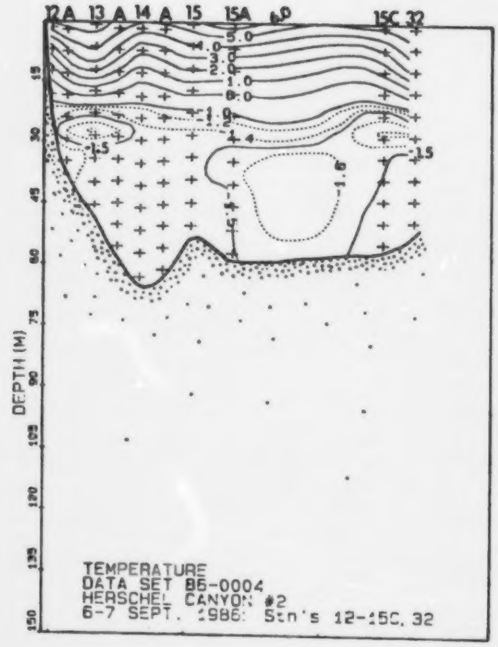

28.0
30.0
31.0
31.5
32.0
32.0
32.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 86-DFO
EAST. MCK. SHELF #3
19-20 AUG. 1986: Stn's 71-69
0
25
50
75
100
125
DISTANCE (KM)


2 2A 3 3A 4 4A 5 5A 5B 5C 30
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
34
25
22
30
TEMPERATURE
DATA SET 86-0004
HERSCHEL CANYON #1
5-6 SEPT. 1986: Stn's 2-5C, 30

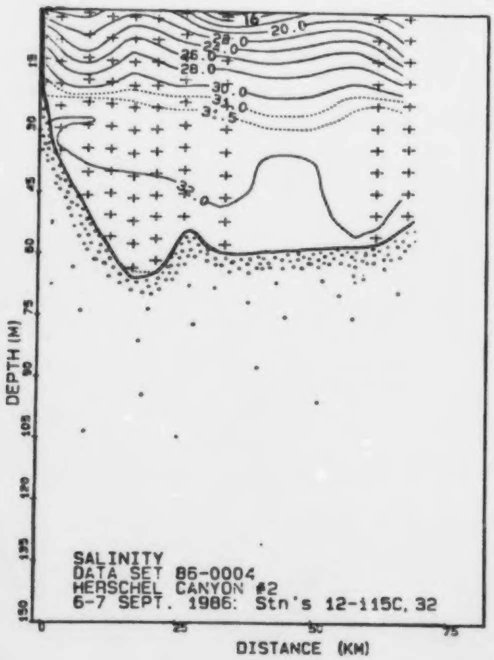

22 A 23 A 24 A 25 25A 25B 25C 34
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
3.0
-1.7
-1.6
-1.5
TEMPERATURE
DATA SET 86-0004
HERSCHEL CANYON #3
7-8 SEPT. 1986: Stn's 22-25C, 34


DEPTH (M)
15
30
45
60
75
90
105
120
135
150
28.0
30.0
32
SALINITY
DATA SET 86-0004
HERSCHEL CANYON #1
5-6 SEPT. 1986: Stn's 2-5C, 30
0
25
50
DISTANCE (KM)

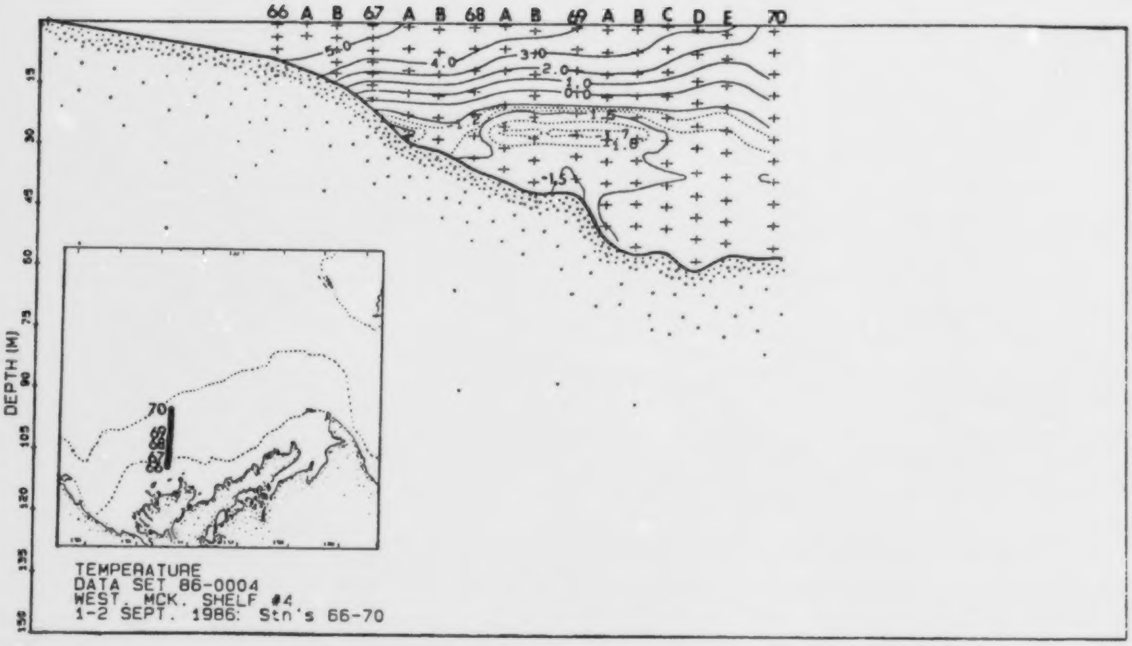

DEPTH (M)
15
30
45
60
75
90
105
120
135
150
20.0
22.0
24.0
26.0
28.0
30.0
31.5
32.0
32.5
SALINITY
DATA SET 86-0004
HERSCHEL CANYON #3
7-8 SEPT. 1986: Stn's 22-25C, 34
0
25
50
75
DISTANCE (KM)



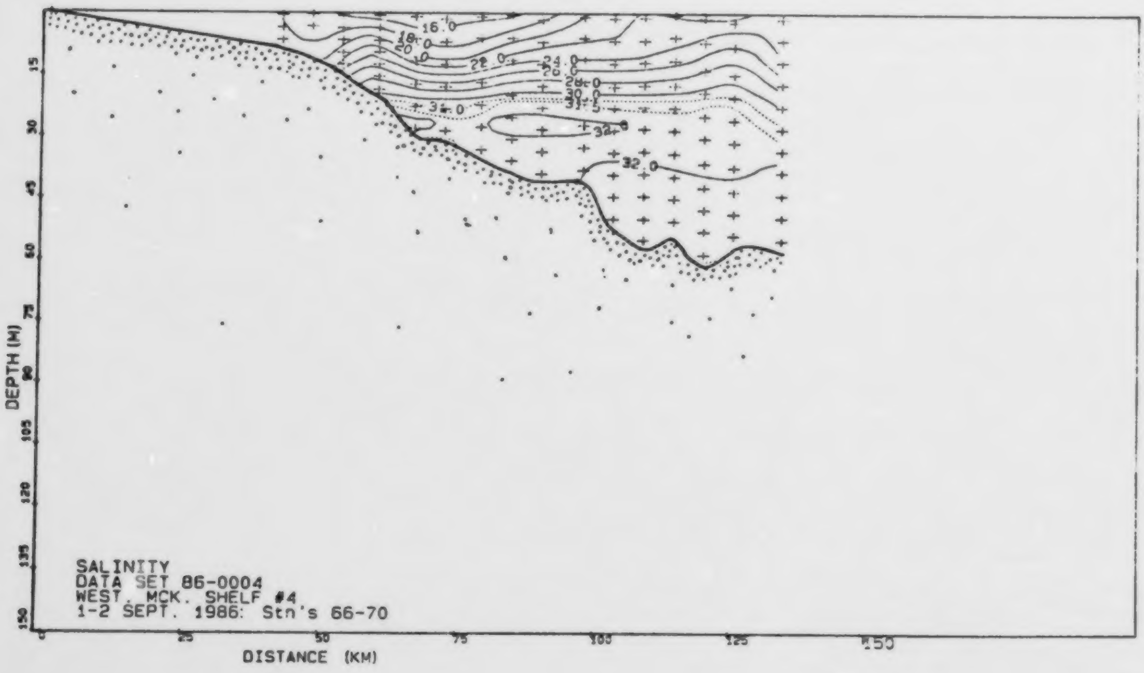
TEMPERATURE
DATA SET 86-0004
HERSCHEL CANYON #2
6-7 SEPT. 1986: Stn's 12-15C, 32



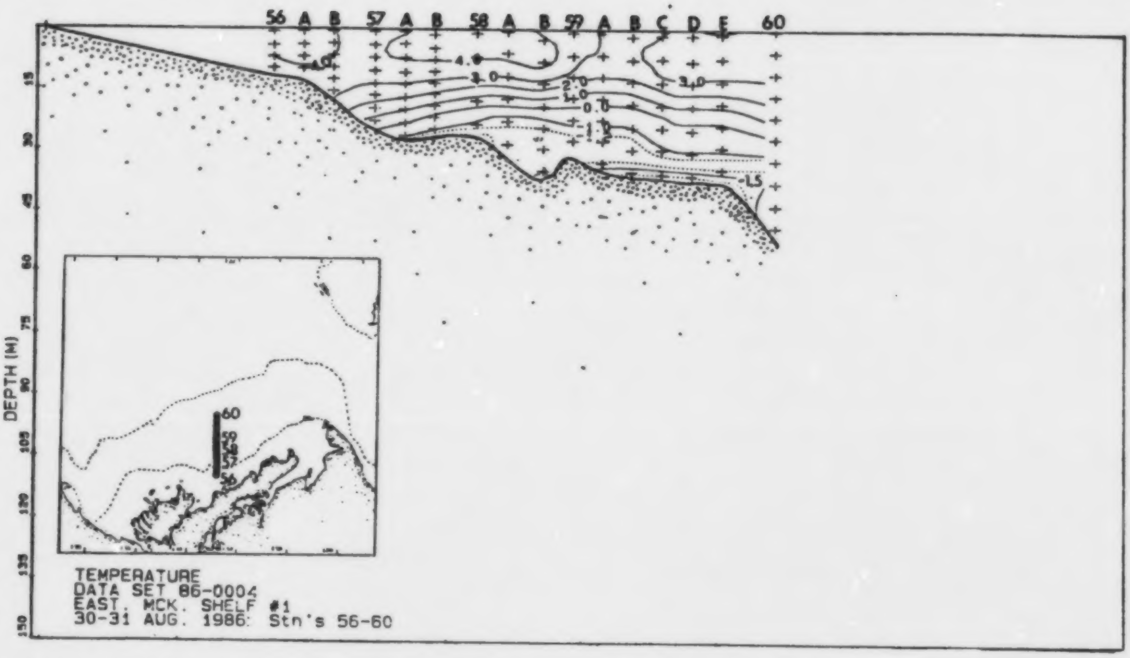
SALINITY
DATA SET 86-0004
HERSCHEL CANYON #2
6-7 SEPT. 1986: Stn's 12-115C, 32



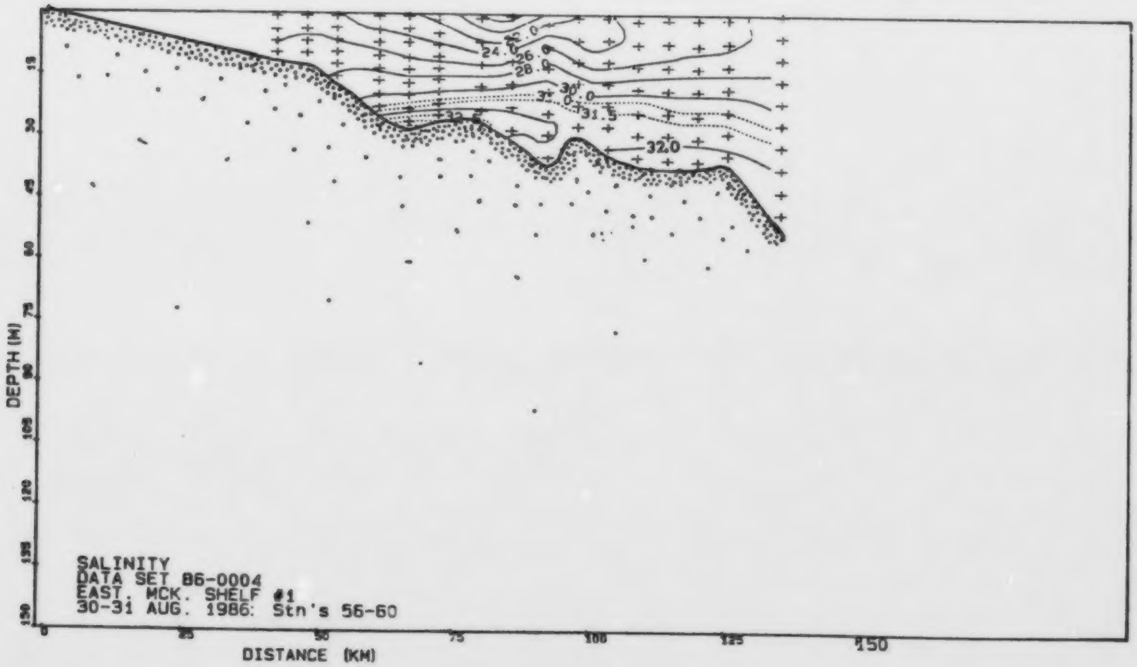
TEMPERATURE
DATA SET 86-0004
WEST. MCK. SHELF #4
1-2 SEPT. 1986: Stn's 66-70



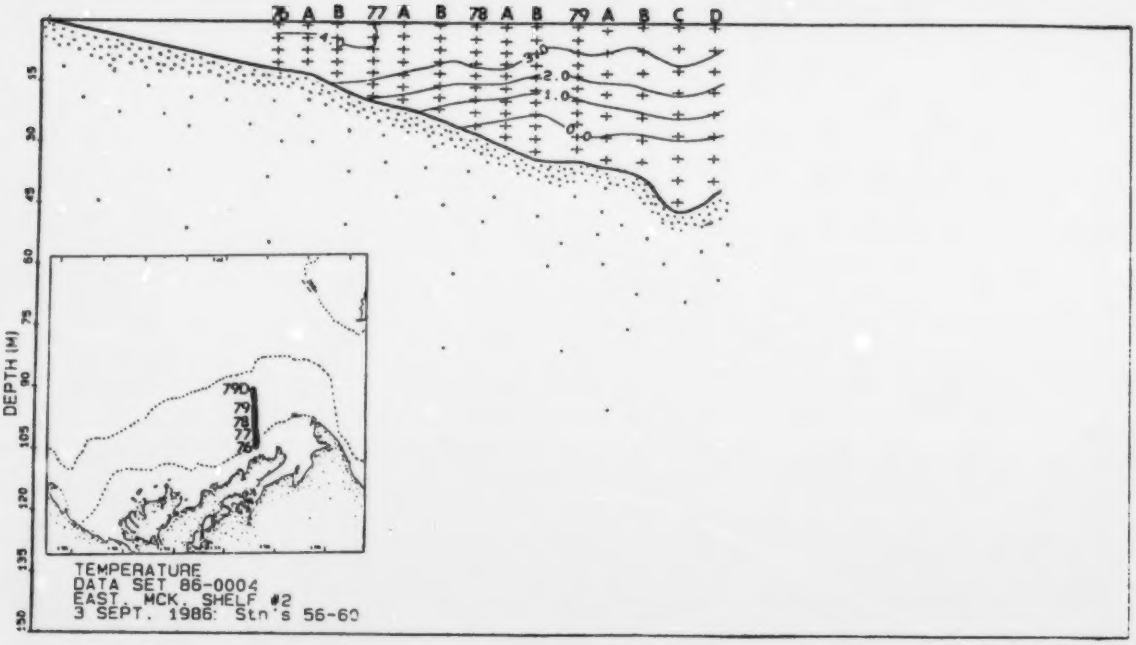
SALINITY
DATA SET 86-0004
WEST. MCK. SHELF #4
1-2 SEPT. 1986: Stn's 66-70



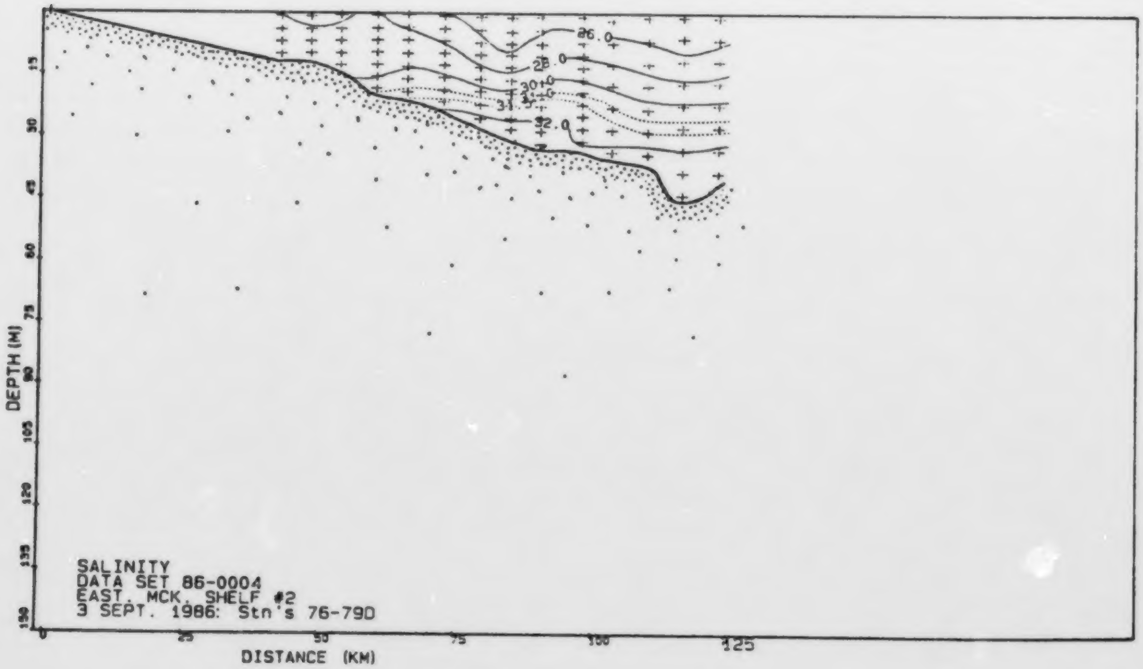
TEMPERATURE
DATA SET 86-0004
EAST. MCK. SHELF #1
30-31 AUG. 1986: Stn's 56-60



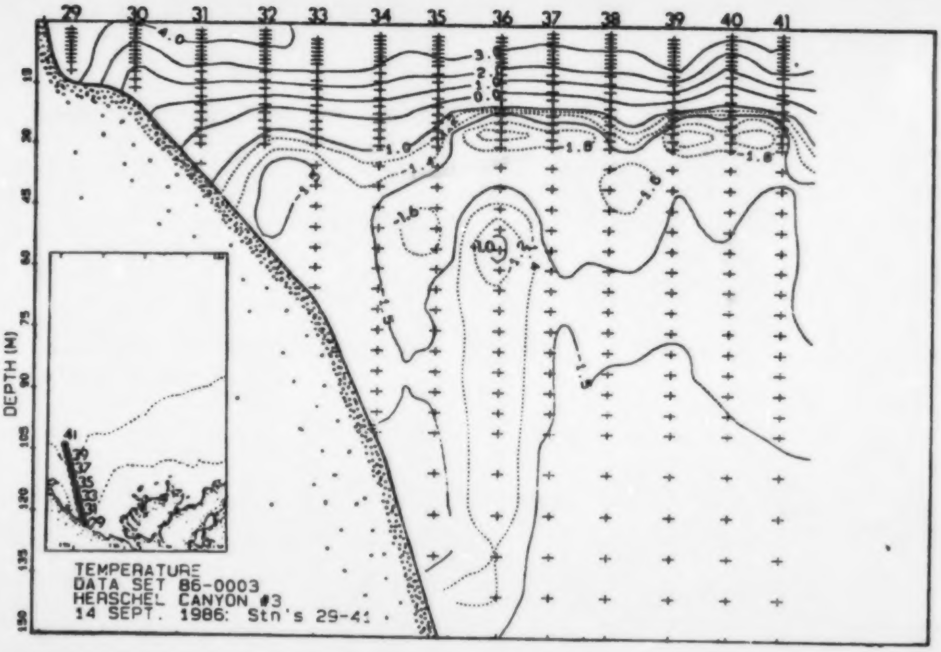
SALINITY
DATA SET 86-0004
EAST. MCK. SHELF #1
30-31 AUG. 1986: Stn's 56-60

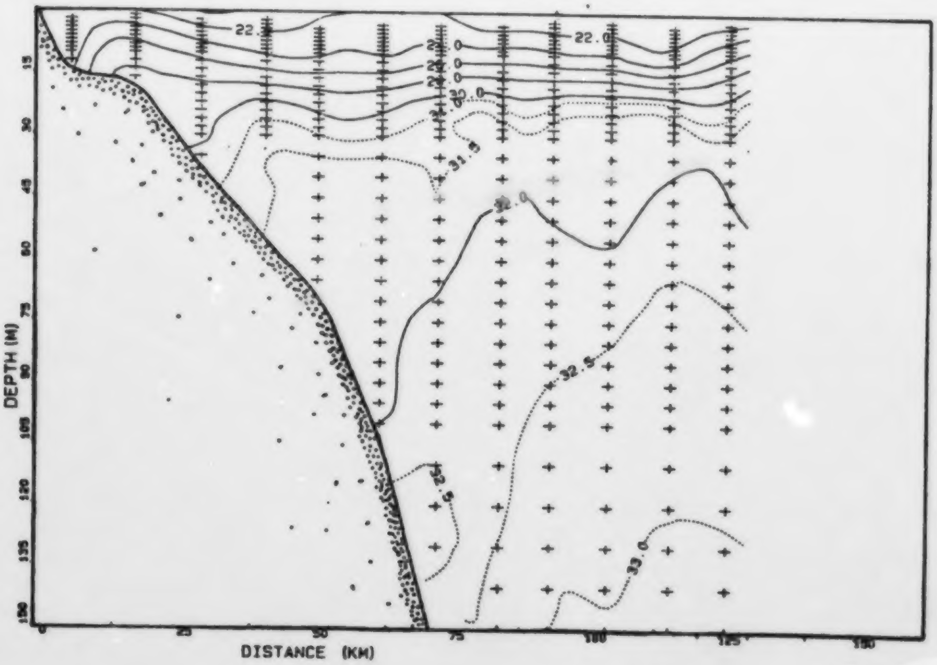


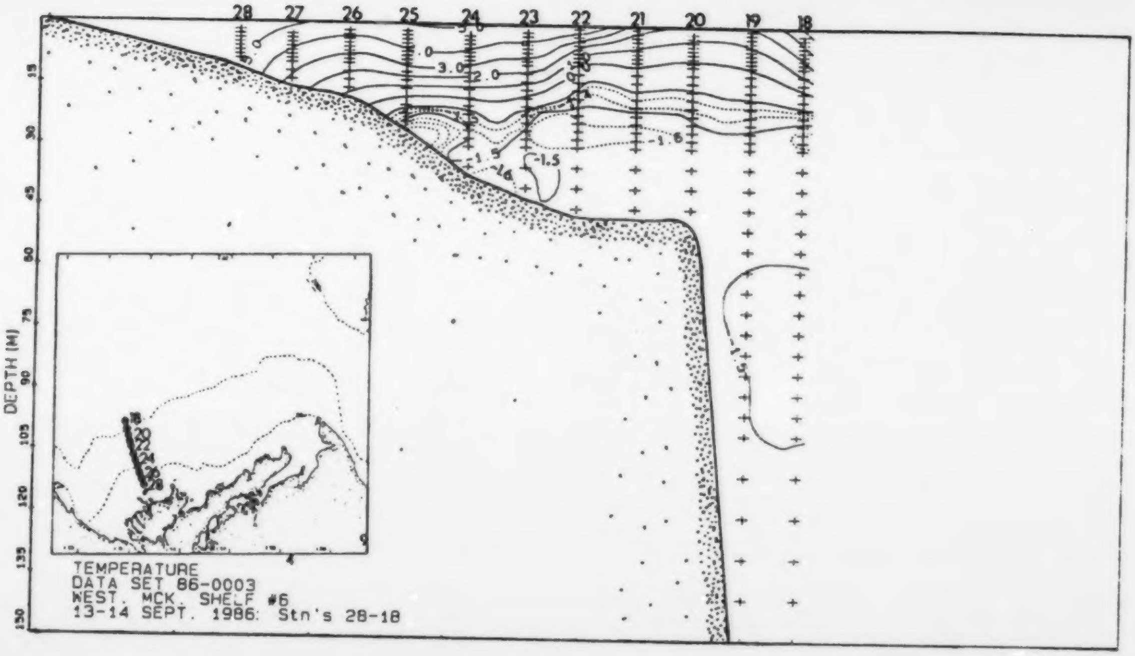
TEMPERATURE
DATA SET 86-0004
EAST. MCK. SHELF #2
3 SEPT. 1986: Stn's 56-60

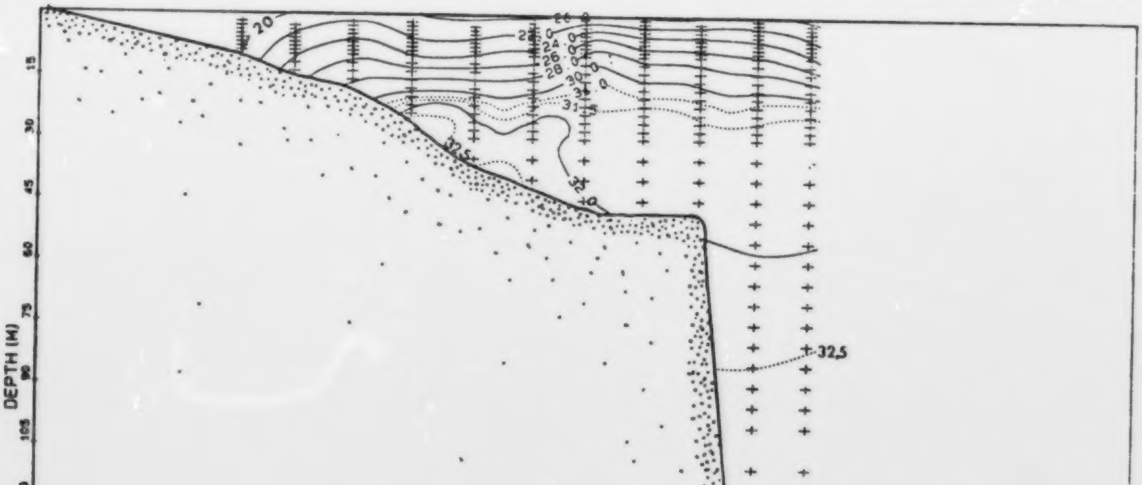


SALINITY
DATA SET 86-0004
EAST. MCK. SHELF #2
3 SEPT. 1986: Stn's 76-79D


29
30
31
32
33
34
35
36
37
38
39
40
41
4.0
3.0
2.0
1.0
0.0
-1.0
-1.4
-1.5
-1.6
-1.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
TEMPERATURE
DATA SET 86-0003
HERSCHEL CANYON #3
14 SEPT. 1986: Stn's 29-41


22.0
22.0
30.0
31.5
32.0
32.5
32.5
33.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
DISTANCE (KM)


28
27
26
25
24
23
22
21
20
19
18
3.0
2.0
-1.5
-1.6
-1.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
TEMPERATURE
DATA SET 86-0003
WEST. MCK. SHELF #6
13-14 SEPT. 1986: Stn's 28-18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22.0
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26.0
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30.0
31.0
31.5
32.5
32
33.0
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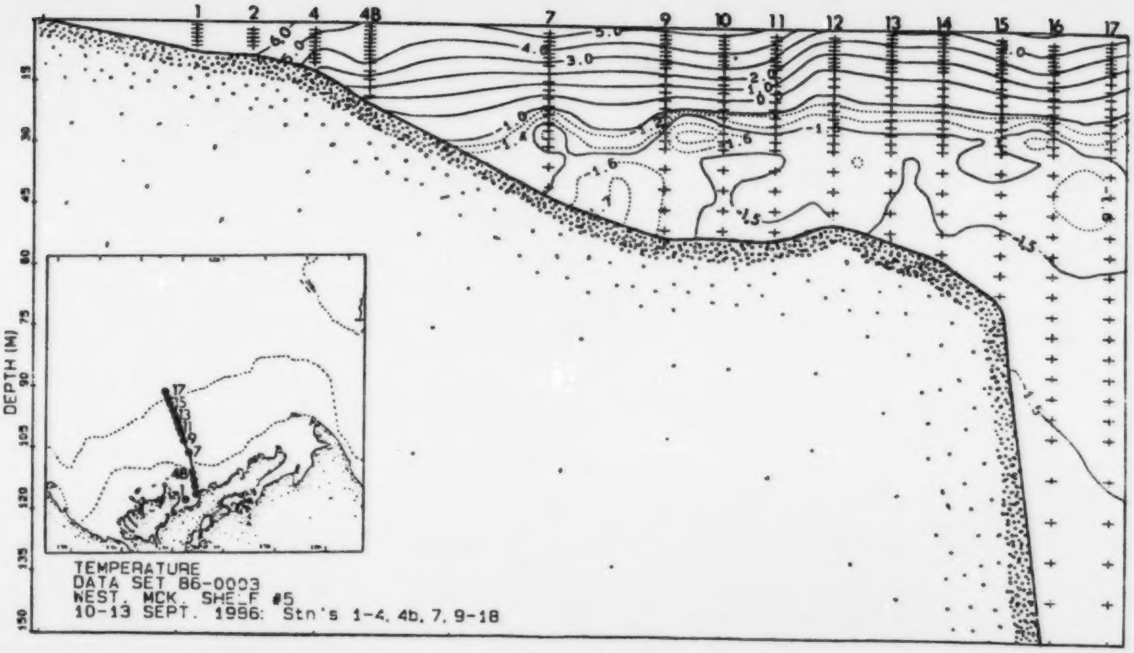
33,0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
0
25
50
75
100
125
150
DISTANCE (KM)
SALINITY
DATA SET 86-0003
WEST. MCK. SHELF #6
13-14 SEPT. 1986: Stn's 28-18



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WEST. MCK. SHELF #5
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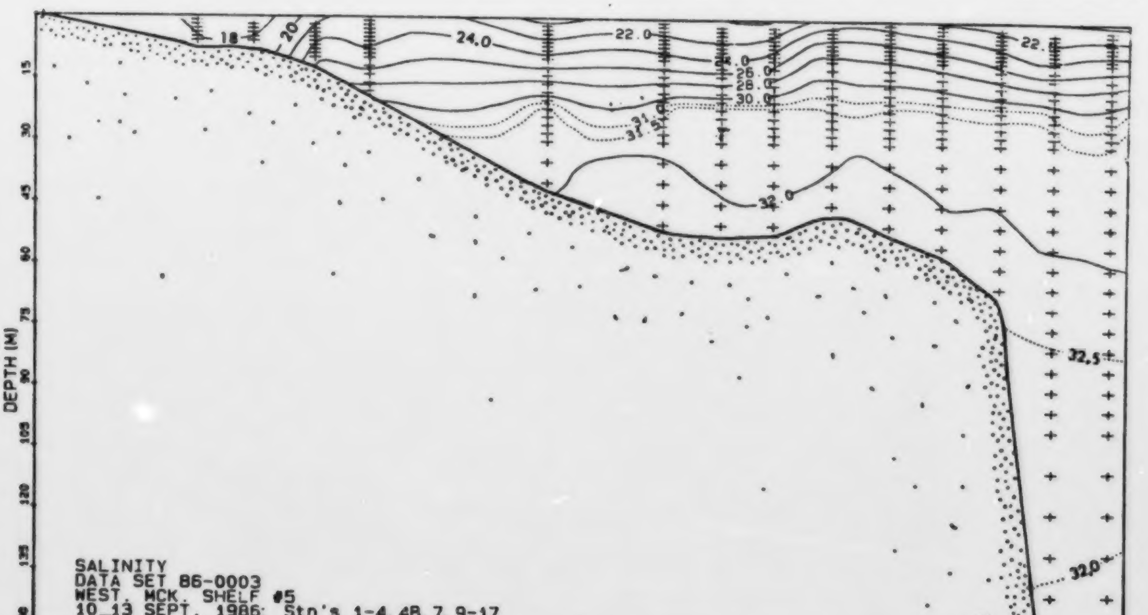

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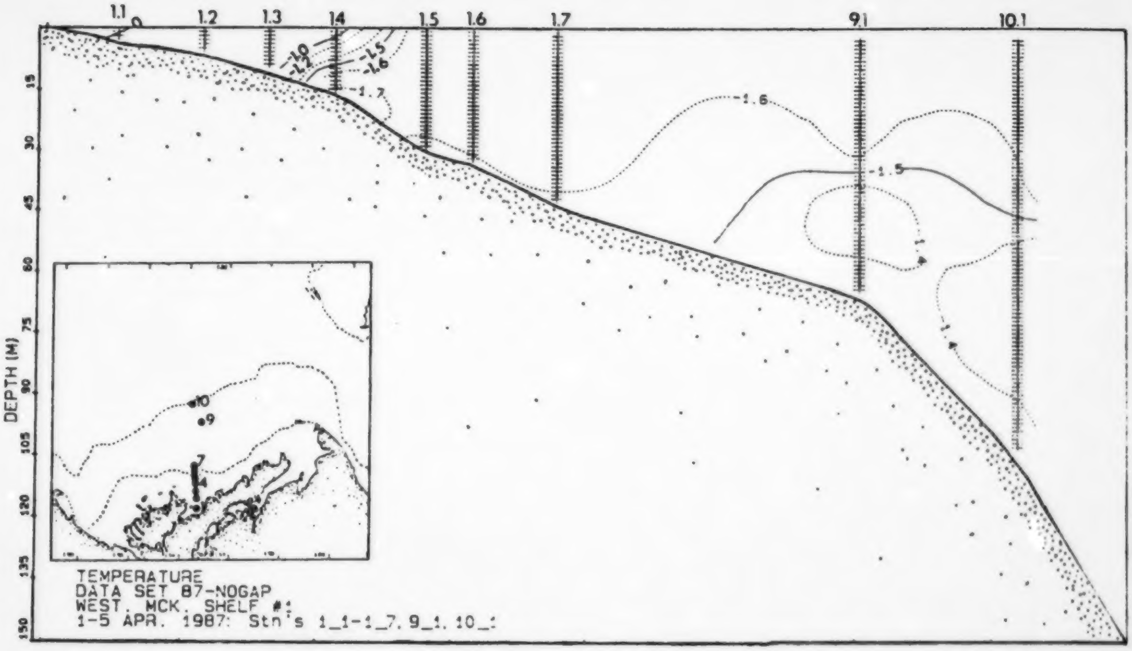

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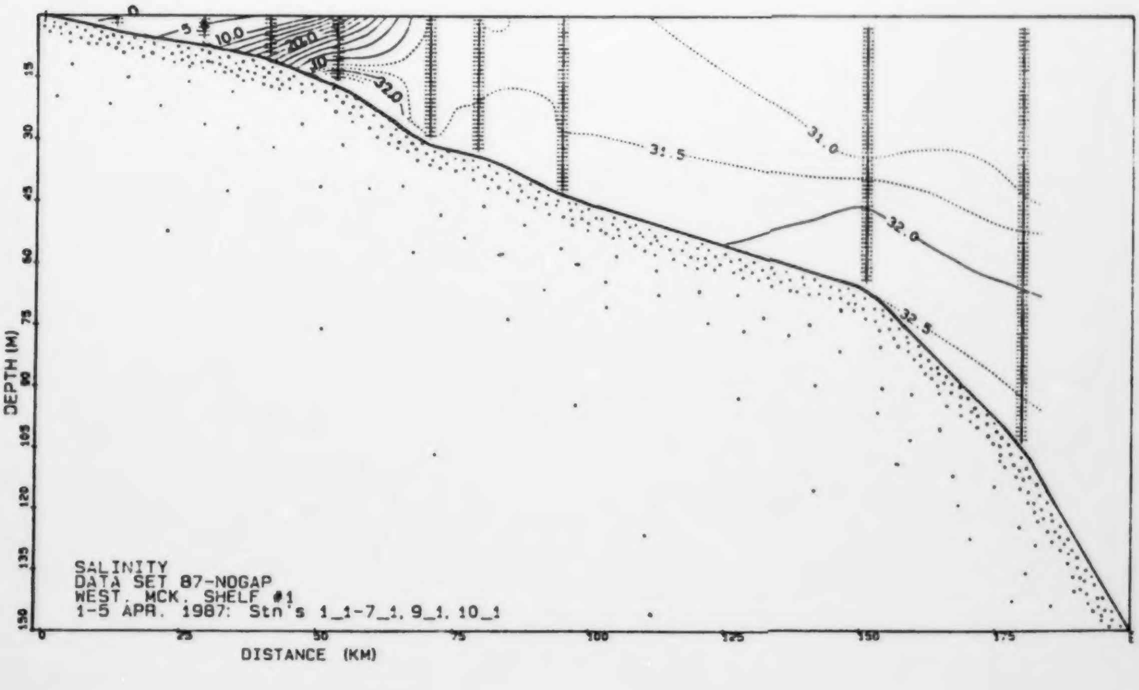

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DATA SET 87-NOGAP
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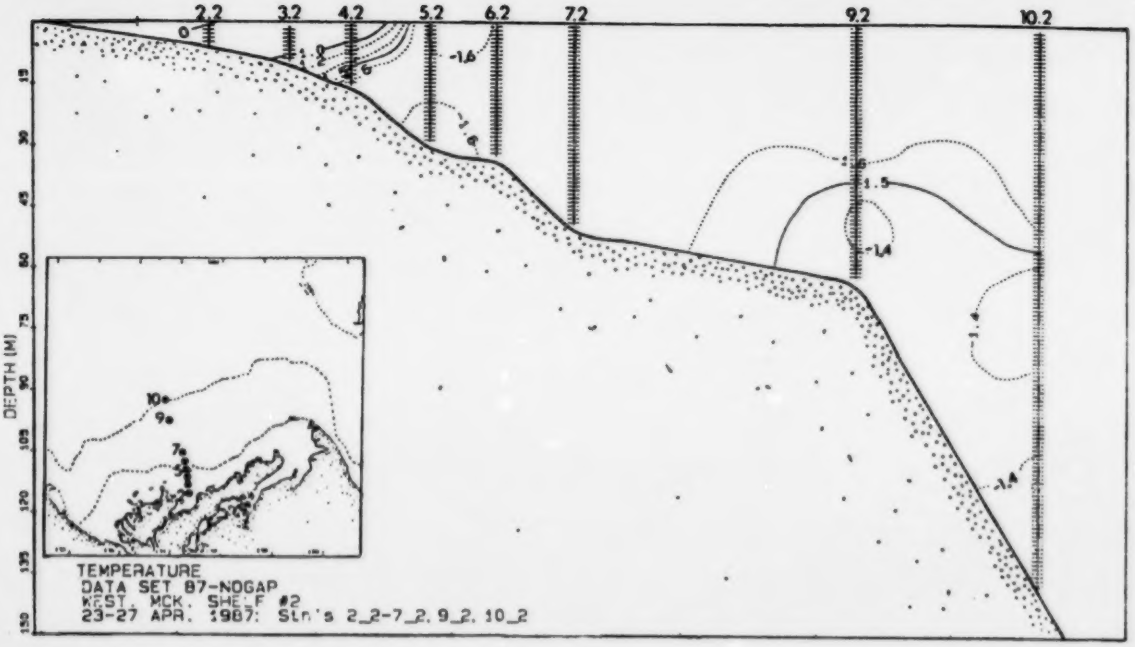
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9.2
10.2
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-1.6
-1.5
-1.4
-1.4
-1.4
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
10
9
7
TEMPERATURE
DATA SET 87-NOGAP
WEST. MCK. SHELF #2
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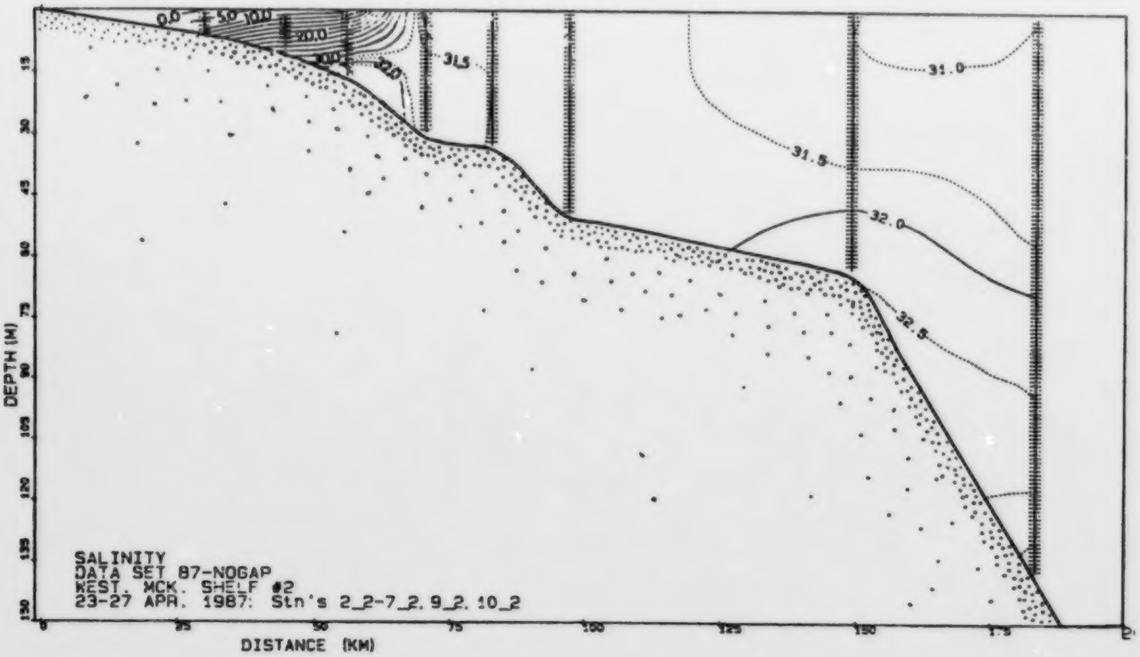
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5.0
10.0
20.0
30.0
32.0
31.5
31.0
31.5
32.0
32.5
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 87-NOGAP
WEST. MCK. SHELF #2
23-27 APR. 1987: Stn's 2_2-7_2,9_2,10_2
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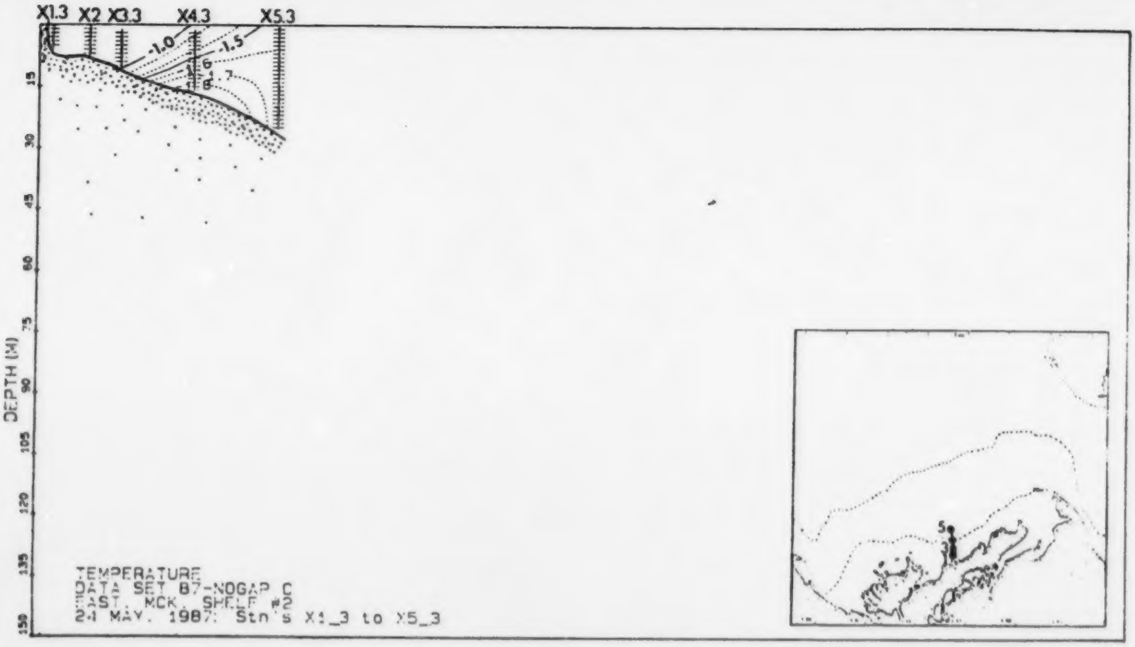
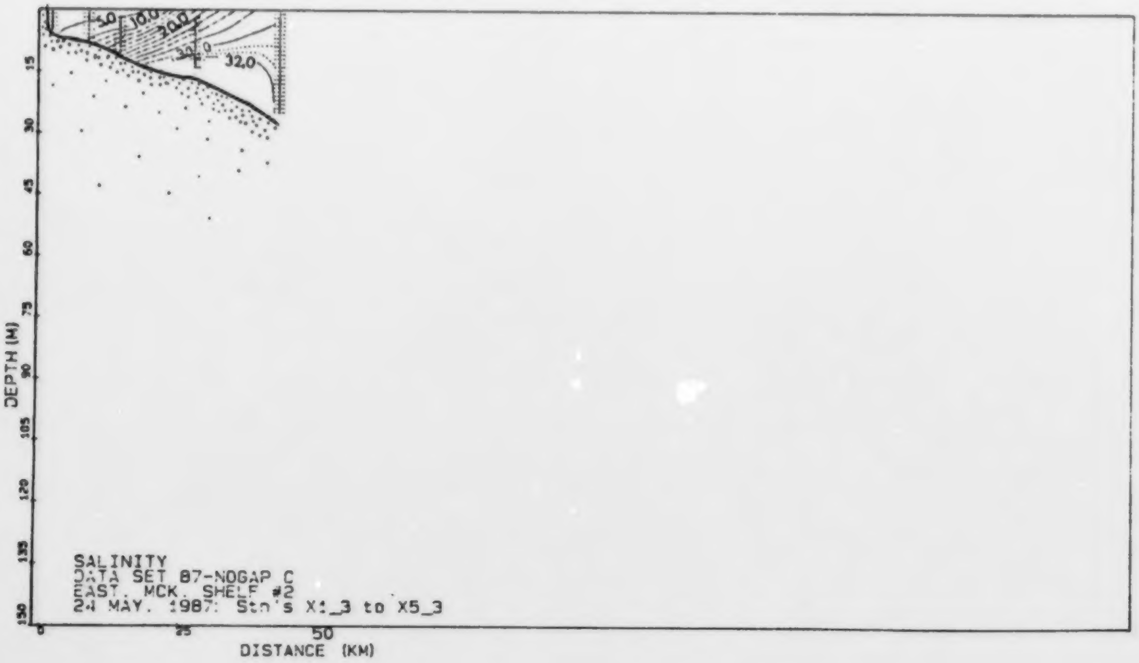
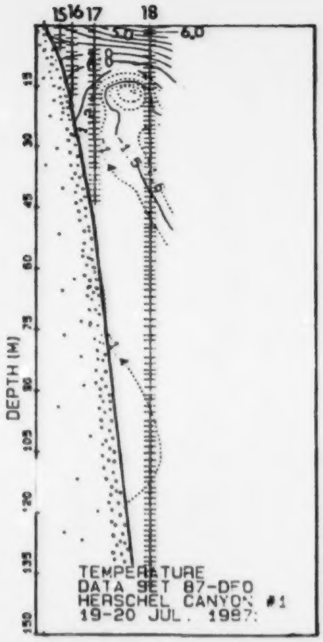
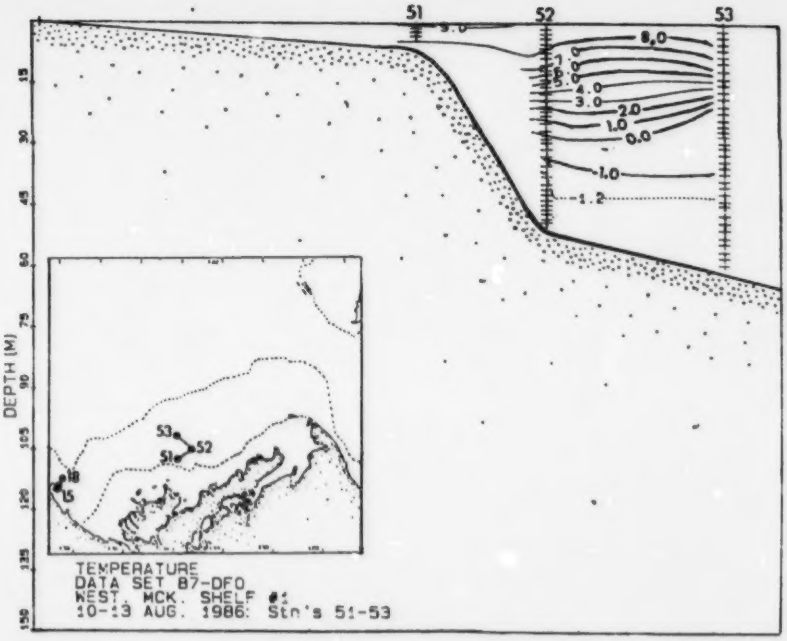
25
50
75
100
125
150
175
200
DISTANCE (KM)


X1.3
X2
X3.3
X4.3
X5.3
-1.0
-1.5
-1.6
-1.7
-1.8
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
5
TEMPERATURE
DATA SET 87-NOGAP C
EAST. MCK. SHELF #2
24 MAY. 1987: Stn's X1_3 to X5_3

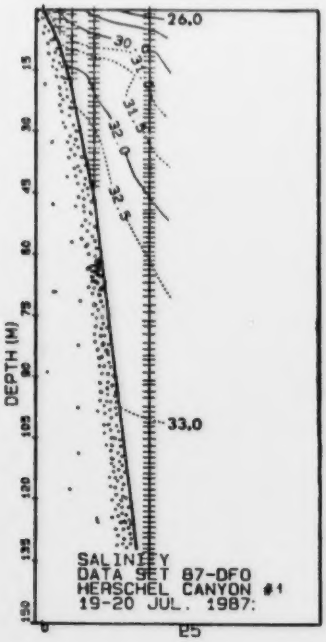

5.0
10.0
30.0
30.0
32.0
DEPTH (M)
15
30
45
60
75
90
105
120
135
150
SALINITY
DATA SET 87-NOGAP C
EAST. MCK. SHELF #2
24 MAY. 1987: Stn's X1_3 to X5_3
0
25
50
DISTANCE (KM)



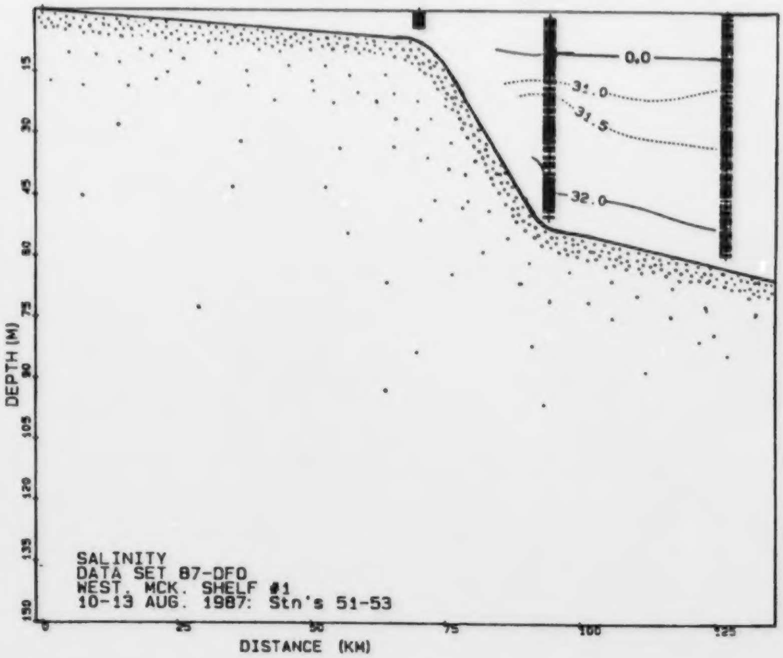
TEMPERATURE
DATA SET 87-DFO
HERSCHEL CANYON #1
19-20 JUL. 1987:



TEMPERATURE
DATA SET 87-DFO
WEST. MCK. SHELF #1
10-13 AUG. 1986: Stn's 51-53



SALINITY
DATA SET 87-DFO
HERSCHEL CANYON #1
19-20 JUL. 1987:



SALINITY
DATA SET 87-DFO
WEST. MCK. SHELF #1
10-13 AUG. 1987: Stn's 51-53

# APPENDIX F

## MARINE GEOSTROPHIC WINDS:
## PROGRESSIVE VECTOR DIAGRAMS AND WIND EVENT ANALYSIS

## Data Set Selection

For this study, the need to describe wind conditions over an extended period, 1950-1987, posed considerable difficulties. Ideally, we require monthly or bi-monthly statistics derived from direct wind measurement over the Beaufort Sea. Unfortunately, direct over-water wind data are only available in this area for the last ten years, mostly in the summer months, as obtained from offshore drilling platforms. (Transient ship-based wind observations are also available, but the very limited number of observations combined with the well established fair-weather bias of such data [Swail, 1985] render these data of little value to the present study.)

A second approach is to use high quality wind measurements collected at coastal stations and apply extrapolation techniques to estimate over-water winds. This technique has been applied to the southeastern Beaufort Sea in several studies (Hydrotechnology, 1980; Danard and Gray, 1984; Fissel and Birch, 1984). In a review of this approach for Tuktoyaktuk wind observations, Murray and Maes (1986) conclude that considerable uncertainties arise amounting to as much as ±20% in magnitude and ±40° in direction. In any case, coastal wind measurements for southeastern Beaufort sites are available for only the last 25-30 years, with sizeable data gaps occurring during this period.

Another alternative is the use of geostrophic winds computed from surface synoptic weather charts. A geostrophic wind data set, extending over the years 1946-1986, has been prepared for Canadian marine areas by Swail (1985), as computed from the Fleet Numerical Oceanography Center (FNOC) gridded surface pressure analysis. The surface pressure fields are prepared for a 381 km grid spacing at six hour intervals. While marine geostrophic wind data offer the considerable advantage of providing information over the full study period, it too has some major limitations. The derivation of surface winds from geostrophic winds is subject to uncertainties due to the influence of various physical mechanisms: surface roughness, atmospheric stability, curvature of the isobars and rate of change of pressure (Swail, 1985; Parker and Alexander, 1983). Geostrophic winds exhibit systematic differences from observed surface winds, due to these factors. Typically, the magnitude of the geostrophic wind can exceed that of the surface wind by 0 to 30 percent, while the geostrophic wind direction is 20 to 45 degrees clockwise (to the right) of the surface wind. Another source of uncertainty arises from the coarse and smoothed pressure field used for derivation of the geostrophic wind, which results in a bias towards reduced wind speeds. Murray and Maes (1986) suggest that smaller scale, low pressure systems; or "polar lows", may be important in the Beaufort Sea; these disturbances would be poorly resolved with the coarse grid of the marine geostrophic data set.

For this study, we selected the marine geostrophic wind data because of its extended duration. Comparisons of this data set with other types of wind data for marine areas in the southeastern Beaufort Sea (Parker and Alexander, 1983; Olson, 1985), indicate a reasonably good correspondence for major wind events.

## Analytical Methods

The marine geostrophic wind values used in this study were computed at a nominal location of 69.3°N, 132.1°W (grid point 16W) located near the coast of the Tuktoyaktuk Peninsula. These wind data are displayed as progressive vector diagrams in this Appendix, for the period July 1 to October 15 of each year in which summer oceanographic observations were used in this study (30 years: 1950-1960 and 1969-1987 inclusive).

An algorithm was developed to identify automatically major wind events during summer and early autumn (July 1-October 15). For this study, major wind events were defined as those periods in which the net wind run could induce advective movements in the upper layer of the ocean over distances comparable to the effective spatial resolution of the oceanographic data analysis. The minimum wind displacement was selected as 1100 km, which corresponds to an advective displacement of 22 to 33 km, using a rule-of-thumb ocean to wind coupling factor of 2 to 3 percent.

To compute occurrences when the net displacement of the wind exceeded 1100 km, displacement of the geostrophic wind was computed along four component axes: north-south, east-west, northeast-southwest and northwest-southeast. A computer program was then applied to the displacement component values, which computed and listed all occurrences where the net displacement changed monotonically by 1100 km or more. (In order to restrict the number of such 'events' identified by the computer, the 6-hourly displacement values were low-passed filtered, virtually eliminating fluctuations with periods of two days or less.) The printouts from the computer programme listing wind 'events' in each of the four component directions were then manually compared, and a sequence of the largest non-overlapping wind events was selected, according to velocity magnitude. All wind events with a mean velocity less than 250 km/d (2.9 m/s) were discarded. The identified wind events are included below, along with plots of the total vector displacement computed from July 1 of each year.

## Wind Events: Testing of Algorithm

To check the validity of the method of identifying wind events, the results for the years 1980 to 1983 were compared with an independent procedure developed in Thomson et al. (1986), derived from surface measurements obtained by the Atmospheric Environment Service at Tuktoyaktuk. In this study, all wind events having a consistent direction, mean speed exceeding 3 m/s and a minimum duration of one day were identified and catalogued. The wind events catalogued in this manner were found to be useful in explaining advection of the Mackenzie River plume.

For the four year comparison period, (July 1 to September 15, 1980 to 1983) 36 wind events were identified from this study, compared to 33 by Thomson et al. (1986), as shown in Table F-1. Of these, 30 wind events were virtually identical, having only modest differences in start and stop times. Often the wind events identified from this study were longer in duration and might include two or even three individual velocity peaks, all falling within the same directional octant.

Five wind events, identified using the Tuktoyaktuk winds by Thomson et al., were not resolved in this study: the omission of three of these wind events was understandable, given the comparatively small mean velocity (3.3, 3.3 and 3.4 m/s) observed at Tuktoyaktuk. Of the remaining two wind events not detected by the algorithm developed in this study, both had very short duration (1.25 d), and were from the west or northwest. A short duration wind event may simply not generate sufficient displacement to warrant inclusion, according to the displacement criteria chosen in this study, especially given the application of the low pass filter to reduce the number of wind events for consideration.

A careful examination of the geostrophic wind record used in this study reveals that pronounced peaks were present at the times suggested from the Tuktoyaktuk surface wind record, but were characterized by a rapid change in wind direction, backing from west to north in 18 hours. This changing wind direction contributed to each accumulated displacement in a single component direction. Such wind phenomena are associated with moderate intensity low pressure systems moving rapidly to the east over the Beaufort Sea. More intense versions of these cyclonic disturbances are realized as being wind events.

A comparison of the geostrophic and Tuktoyaktuk surface winds for the peak value in each wind event reveals that the geostrophic wind directions are rotated clockwise by 25 ±20 degrees. The wind speeds exhibit larger differences with the mean ratio of geostrophic wind to Tuktoyaktuk surface wind being 1.10 ±0.35.

The comparison of wind events as determined in this study and the results derived from the Tuktoyaktuk surface winds (Thomson et al., 1986) indicate that almost all of the significant wind events are recognized with the methodology of this study.

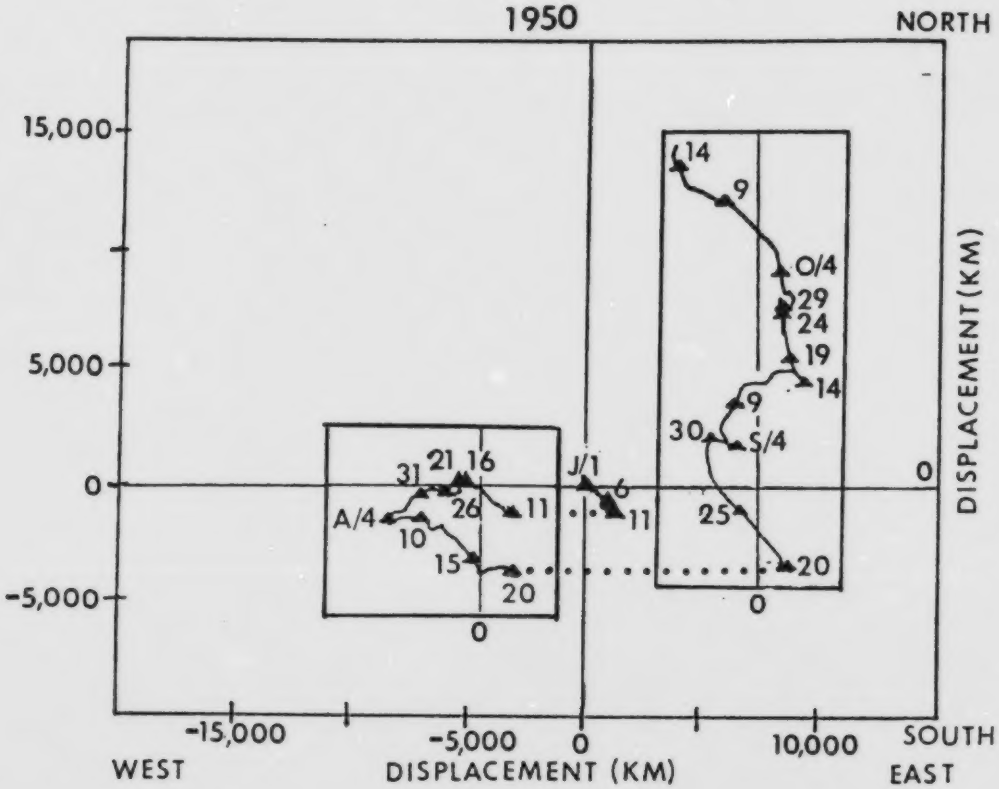
TABLE F-1

A comparison of wind events, as computed from the marine geostrophic wind data using the analytical techniques of this study, with the results of a previous analysis of surface winds measured at Tukoyaktuk, N.W.T., 1980 - 1983 (Thomson et al., 1986)

| | | | GEOSTROPHIC | | MEAN | | MAXIMUM | | TUKTOYAKTUK(SURFACE) | | | MEAN | | MAXIMUM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Duration (d) | Dist. (km) | Speed (km/d) | Speed (m/s) | Speed (m/s) | Dir'n | Dir'n | Duration (d) | Dist. (km) | Speed (km/d) | Speed (m/s) | Speed (m/s) | Dir'n |
| 80-1 | E | Mod. | 20.75 | 6122 | 295 | 3.4 | 9.4 | 150 #1 | E | 21.50 | 7640 | 355 | 4.1 | 9.7 | 90 |
| | | | | | | | 9.1 | 330 #2 | W | 1.25 | 809 | 647 | 7.5 | 13.3 | 320 |
| 80-2 | SE | Str. | 3.75 | 2006 | 535 | 6.2 | 11.1 | 100 #3 | E | 5.25 | 1823 | 347 | 4.0 | 8.6 | 30 |
| 80-3 | NE | Mod. | 12.00 | 4536 | 378 | 4.4 | 9.5 | 60 #4 | NE | 7.25 | 3312 | 457 | 5.3 | 12.8 | 40 |
| 80-4 | W | Mod. | 8.25 | 3091 | 375 | 4.3 | 14.0 | 220 #5 | W | 5.50 | 1685 | 306 | 3.5 | 12.2 | 300 |
| 80-5 | NE | Extr. | 2.50 | 1694 | 678 | 7.8 | 11.3 | 50 #6 | NE | 2.00 | 1110 | 555 | 6.4 | 8.3 | 60 |
| 80-6 | W | Mod. | 4.00 | 1199 | 300 | 3.5 | 9.0 | 240 #7 | W | 7.25 | 2120 | 292 | 3.4 | 8.3 | 270 |
| 80-7 | SE | Extr. | 5.00 | 2845 | 569 | 6.6 | 15.1 | 140 #8 | SE | 5.25 | 1649 | 314 | 3.6 | 8.3 | 100 |
| 80-8 | NW | Str. | 5.75 | 2797 | 486 | 5.6 | 14.0 | 330 #9 | NW | 2.75 | 1774 | 645 | 7.5 | 13.3 | 310 |
| 81-1 | W | Mod. | 6.75 | 2110 | 313 | 3.6 | 10.7 | 220 | | | | | | | |
| 81-2 | SE | Extr. | 4.00 | 2520 | 630 | 7.3 | 11.1 | 160 #1 | SE | 4.50 | 1849 | 411 | 4.6 | 10.3 | 100 |
| 81-3 | SE | Mod. | 4.25 | 1120 | 264 | 3.1 | 7.3 | 150 | | | | | | | |
| 81-4 | SW | Mod. | 5.25 | 1320 | 251 | 2.9 | 10.9 | 180 (included in #2) | | | | | | | |
| 81-5 | NW | Str. | 3.75 | 1939 | 517 | 6.0 | 12.7 | 340 #2 | NW | 6.75 | 2933 | 435 | 5.0 | 13.3 | 340 |
| 81-6 | W | Str. | 3.00 | 1224 | 408 | 4.7 | 11.3 | 320 #3 | W | 1.75 | 1290 | 737 | 8.5 | 13.3 | 290 |
| 81-7 | E | Extr. | 3.25 | 1804 | 555 | 6.4 | 13.3 | 100 #4 | NE | 4.00 | 1534 | 383 | 4.4 | 10.3 | 40 |
| 81-8 | SW | Str. | 3.00 | 1222 | 407 | 4.7 | 9.1 | 240 | | | | | | | |
| 81-9 | NW | Extr. | 6.50 | 5107 | 786 | 9.1 | 16.6 | 320 #5 | NW | 12.00 | 4821 | 402 | 4.6 | 13.3 | 290 |
| 81-10 | NW | Str. | 2.50 | 1140 | 456 | 5.3 | 10.4 | 340 | | | | | | | |
| 81-11 | SE | Str. | 10.00 | 4576 | 458 | 5.3 | 14.2 | 150 (included in #6) | | | | | | | |
| 81-12 | NW | Extr. | 1.75 | 1156 | 661 | 7.6 | 12.4 | 320 #6 | W | 2.50 | 1517 | 607 | 7.0 | 12.2 | 300 |
| 82-1 | NE | Mod. | 10.00 | 3536 | 354 | 4.1 | 10.4 | 100 #1 | E | 6.75 | 3161 | 468 | 5.4 | 8.6 | 70 |
| | | | | | | | 10.3 | 30 #2 | N | 3.50 | 1005 | 287 | 3.3 | 8.3 | 30 |
| 82-2 | W | Str. | 7.00 | 3130 | 447 | 5.2 | 13.2 | 280 #3 | W | 5.00 | 1565 | 313 | 3.6 | 9.2 | 270 |
| 82-3 | NW | Str. | 3.00 | 1636 | 545 | 6.3 | 15.8 | 340 #4 | W | 2.75 | 1270 | 462 | 5.3 | 12.2 | 320 |
| 82-4 | SE | Str. | 2.25 | 1163 | 517 | 6.0 | 9.8 | 130 #5 | E | 2.75 | 831 | 302 | 3.5 | 7.8 | 120 |
| 82-5 | W | Mod. | 7.00 | 2603 | 372 | 4.3 | 9.9 | 280 #6 | W | 5.75 | 2264 | 394 | 4.6 | 9.2 | 300 |
| 82-6 | SW | Extr. | 2.50 | 1611 | 644 | 7.5 | 16.3 | 200 #7 | SE | 3.75 | 1372 | 366 | 4.2 | 9.2 | 170 |
| 82-7 | NW | Str. | 6.75 | 3597 | 533 | 6.2 | 14.3 | 290 #8 | NW | 4.00 | 2219 | 555 | 6.4 | 13.3 | 300 |
| 82-8 | SE | Str. | 3.75 | 1919 | 512 | 5.9 | 11.7 | 160 #9 | SE | 2.75 | 1035 | 377 | 4.4 | 5.3 | 120 |
| 82-9 | SE | Str. | 16.25 | 8582 | 528 | 6.1 | 12.4 | 90 #10 | SE | 15.00 | 4411 | 294 | 3.4 | 8.3 | 100 |
| | | | | | | | 13.3 | 320 #11 | W | 1.25 | 1021 | 817 | 9.5 | 14.4 | 290 |

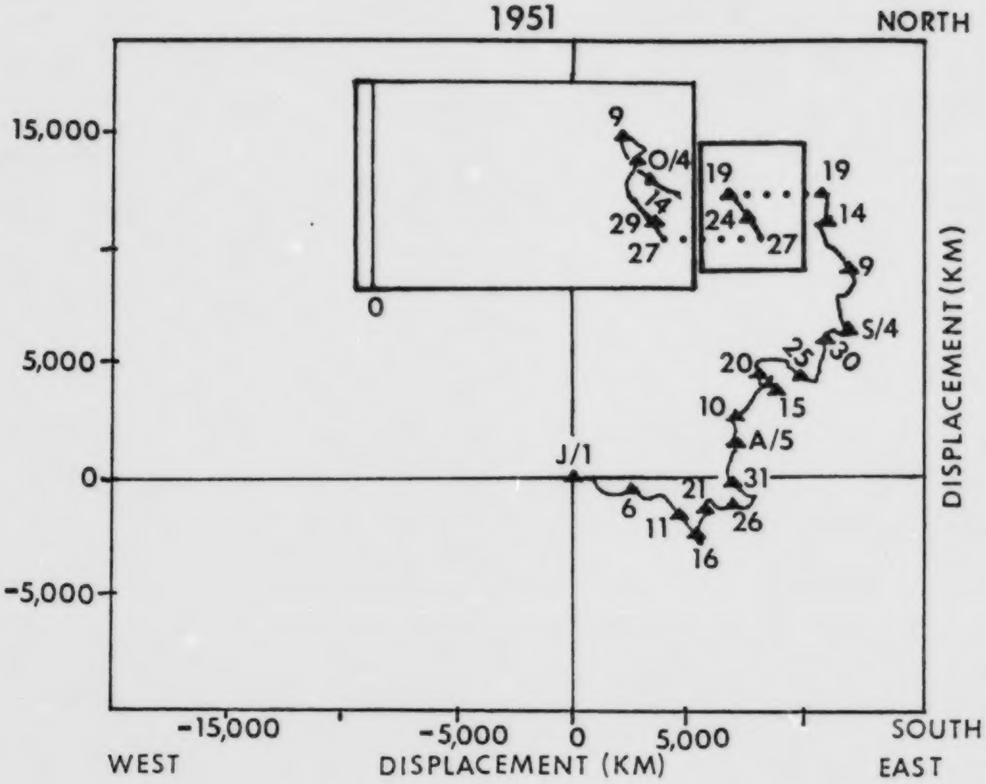
TABLE F-1 (Cont'd)

| | GEOSTROPHIC | | | | MEAN | | MAXIMUM | | | TUKTOYAKTUK(SURFACE) | | | MEAN | | MAXIMUM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Duration (d) | Dist. (km) | Speed (km/d) | Speed (m/s) | Speed (m/s) | Dir'n | | Dir'n | Duration (d) | Dist. (km) | Speed (km/d) | Speed (m/s) | Speed (m/s) | Dir'n |
| | | | | | | | 13.2 | 130 | #1 | E | 11.75 | 3416 | 291 | 3.4 | 10.3 | 80 |
| 83-1 | NE | Mod. | 6.50 | 2414 | 371 | 4.3 | 9.3 | 40 | | | | | | | | |
| 83-2 | SE | Str. | 6.50 | 2705 | 416 | 4.8 | 8.7 | 100 | #2 | NE | 4.75 | 1347 | 284 | 3.3 | 8.3 | 40 |
| 83-3 | NW | Str. | 2.75 | 1310 | 476 | 5.5 | 9.2 | 290 | #3 | W | 2.50 | 1435 | 574 | 6.6 | 12.8 | 290 |
| 83-4 | E | Str. | 7.25 | 3453 | 476 | 5.5 | 8.9 | 120 | #4 | E | 3.75 | 1656 | 442 | 5.1 | 8.3 | 100 |
| 83-5 | SSW | Mod. | 6.25 | 2474 | 396 | 4.6 | 9.2 | 160 | #5 | SE | 2.50 | 950 | 380 | 4.4 | 7.2 | 130 |
| | | | | | | | | | #6 | W | 2.25 | 657 | 292 | 3.4 | 5.6 | 280 |
| 83-6 | SW | Mod. | 3.75 | 1115 | 297 | 3.4 | 12.5 | 210 | | | | | | | | |
| 83-7 | W | Mod. | 4.50 | 1711 | 380 | 4.4 | 13.9 | 360 | #7 | NW | 1.75 | 1066 | 621 | 7.2 | 12.8 | 330 |



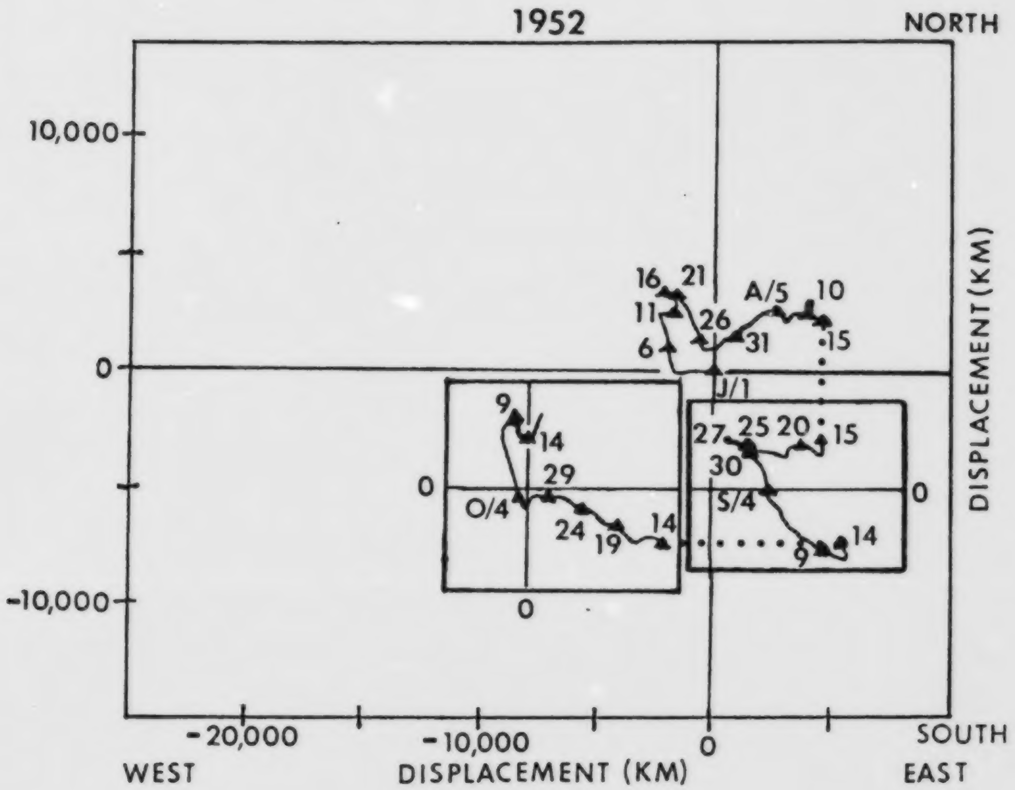
WIND EVENTS

| Event | Dir'n | Mag. | Start Time | Stop Time | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
|---|---|---|---|---|---|---|---|---|
| 50-1 | NW | Str. | 01-Jul-50 | 04-Jul-50 | 3.00 | 1368 | 456 | 5.3 |
| 50-2 | E | Mod. | 10-Jul-50 | 20-Jul-50 | 10.00 | 2542 | 254 | 2.9 |
| 50-3 | E | Mod. | 26-Jul-50 | 05-Aug-50 | 10.50 | 2971 | 283 | 3.3 |
| 50-4 | NW | Mod. | 07-Aug-50 | 21-Aug-50 | 13.75 | 5321 | 387 | 4.5 |
| 50-5 | SE | Ext. | 21-Aug-50 | 29-Aug-50 | 8.00 | 6408 | 801 | 9.3 |
| 50-6 | W | Mod. | 28-Aug-50 | 02-Sep-50 | 5.75 | 1466 | 255 | 3.0 |
| 50-7 | SW | Str. | 05-Sep-50 | 15-Sep-50 | 9.75 | 4122 | 423 | 4.9 |
| 50-8 | S | Str. | 16-Sep-50 | 23-Sep-50 | 6.25 | 3446 | 551 | 6.4 |
| 50-9 | N | Mod. | 23-Sep-50 | 26-Sep-50 | 3.75 | 1417 | 378 | 4.4 |
| 50-10 | SW | Mod. | 26-Sep-50 | 02-Oct-50 | 5.25 | 1357 | 258 | 3.0 |
| 50-11 | SE | Str. | 30-Sep-50 | 13-Oct-50 | 12.50 | 6761 | 541 | 6.3 |



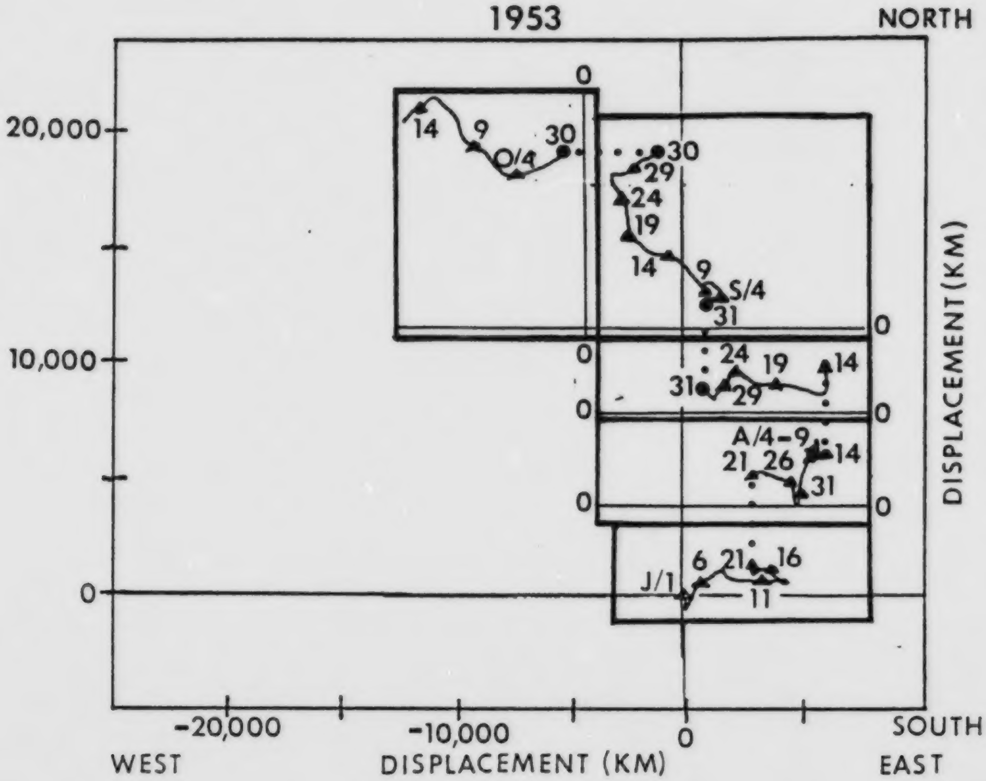
WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | | | | |
| 51-1 | SW | Str. | 04-Jul-51 | 07-Jul-51 | 2.75 | 1111 | 404 | 4.7 |
| 51-2 | N | Str. | 09-Jul-51 | 14-Jul-51 | 4.50 | 2031 | 451 | 5.2 |
| 51-3 | SW | Str. | 15-Jul-51 | 18-Jul-51 | 3.25 | 1346 | 414 | 4.8 |
| 51-4 | W | Mod. | 21-Jul-51 | 28-Jul-51 | 7.50 | 2094 | 279 | 3.2 |
| 51-5 | S | Mod. | 27-Jul-51 | 14-Aug-51 | 18.00 | 5061 | 281 | 3.3 |
| 51-6 | NW | Mod. | 21-Aug-51 | 26-Aug-51 | 5.75 | 2259 | 393 | 4.5 |
| 51-7 | SSW | Str. | 26-Aug-51 | 31-Aug-51 | 4.75 | 2143 | 451 | 5.2 |
| 51-8 | SE | Mod. | 02-Sep-51 | 06-Sep-51 | 3.75 | 1506 | 402 | 4.6 |
| 51-9 | SE | Ext. | 07-Sep-51 | 13-Sep-51 | 5.25 | 2891 | 551 | 6.4 |
| 51-10 | NW | Mod. | 19-Sep-51 | 27-Sep-51 | 7.75 | 2357 | 304 | 3.5 |
| 51-11 | SE | Str. | 27-Sep-51 | 08-Oct-51 | 10.00 | 4283 | 428 | 5.0 |
| 51-12 | NW | Ext. | 08-Oct-51 | 11-Oct-51 | 2.50 | 1934 | 774 | 9.0 |



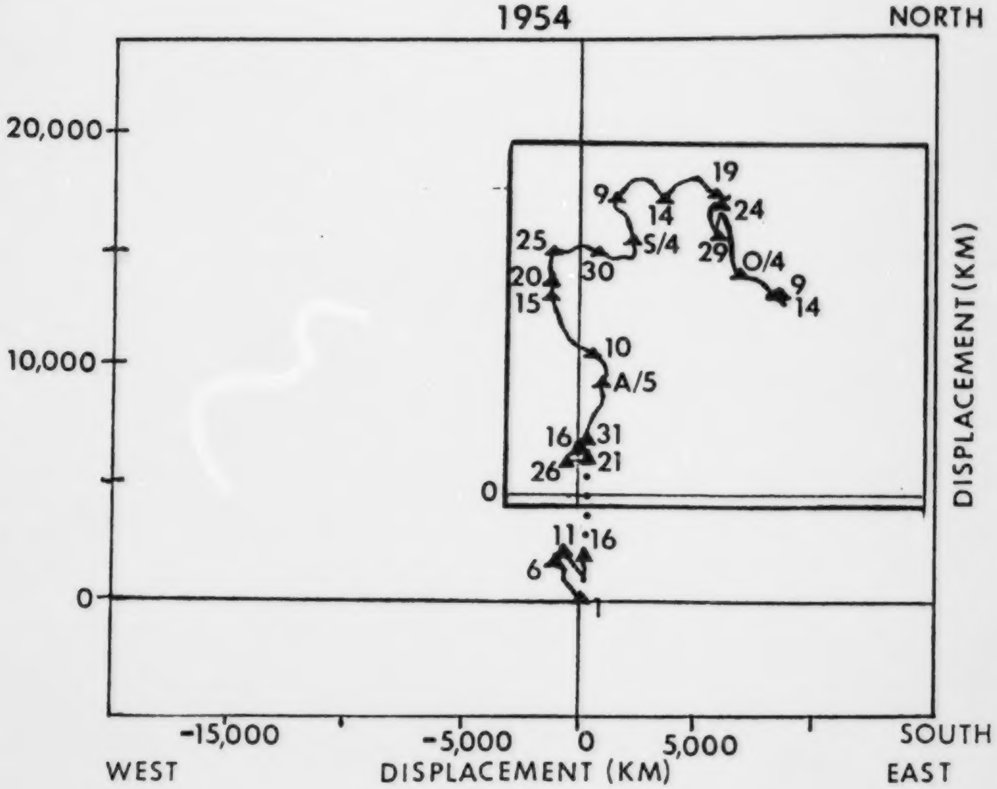
### WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 52-1 | SSE | Str. | 04-Jul-52 | 09-Jul-52 | 5.25 | 2353 | 448 | 5.2 |
| 52-2 | SW | Mod. | 27-Jul-52 | 05-Aug-52 | 9.50 | 3231 | 340 | 3.9 |
| 52-3 | NNW | Mod. | 12-Aug-52 | 17-Aug-52 | 5.00 | 1679 | 336 | 3.9 |
| 52-4 | E | Mod. | 16-Aug-52 | 27-Aug-52 | 11.75 | 3592 | 306 | 3.5 |
| 52-5 | NW | Str. | 27-Aug-52 | 12-Sep-52 | 16.00 | 6968 | 436 | 5.0 |
| 52-6 | SE | Mod. | 12-Sep-52 | 20-Sep-52 | 7.00 | 2635 | 376 | 4.4 |
| 52-7 | SE | Mod. | 21-Sep-52 | 01-Oct-52 | 10.50 | 3184 | 303 | 3.5 |
| 52-8 | SSE | Extr. | 03-Oct-52 | 07-Oct-52 | 3.75 | 3419 | 912 | 10.6 |



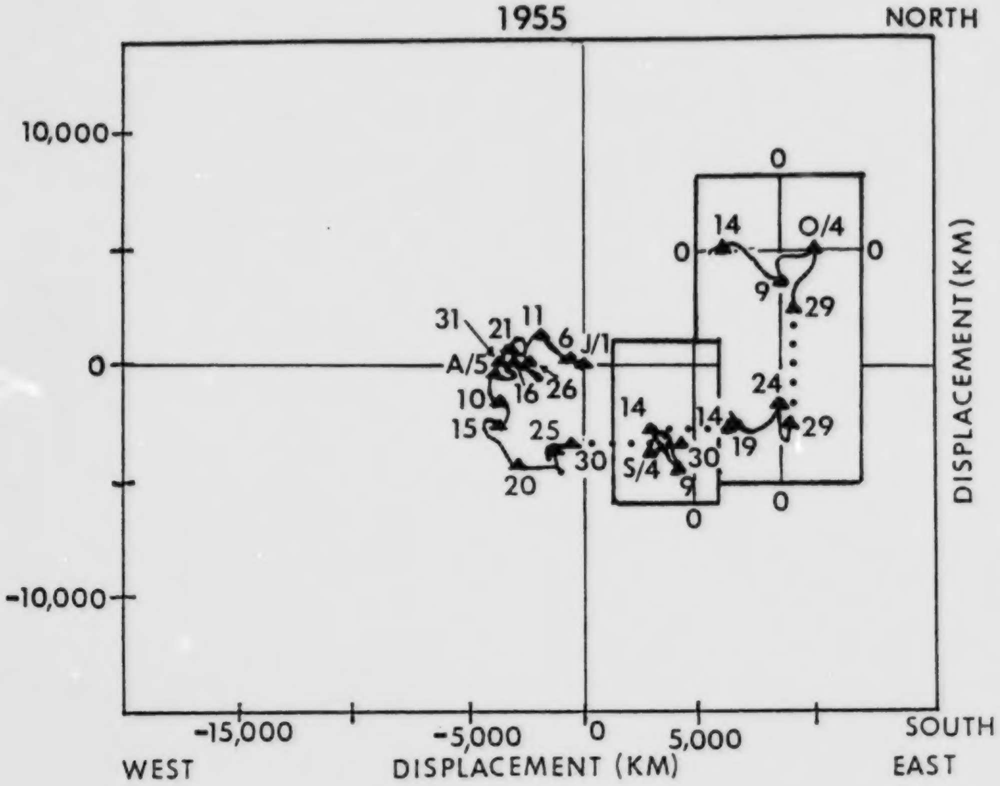
**WIND EVENTS**

| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 53-1 | W | Str. | 04-Jul-53 | 13-Jul-53 | 9.00 | 4113 | 457 | 5.3 |
| 53-2 | NW | Mod. | 21-Jul-53 | 29-Jul-53 | 7.75 | 2357 | 304 | 3.5 |
| 53-3 | SW | Mod. | 29-Jul-53 | 04-Aug-53 | 5.25 | 2093 | 399 | 4.6 |
| 53-4 | E | Str. | 16-Aug-53 | 25-Aug-53 | 8.25 | 3905 | 473 | 5.5 |
| 53-5 | SE | Mod. | 08-Sep-53 | 20-Sep-53 | 11.75 | 4557 | 388 | 4.5 |
| 53-6 | SE | Str. | 21-Sep-53 | 26-Sep-53 | 5.25 | 2205 | 420 | 4.9 |
| 53-7 | W | Str. | 26-Sep-53 | 01-Oct-53 | 4.50 | 2061 | 458 | 5.3 |
| 53-8 | SE | Str. | 01-Oct-53 | 12-Oct-53 | 11.00 | 5723 | 520 | 6.0 |

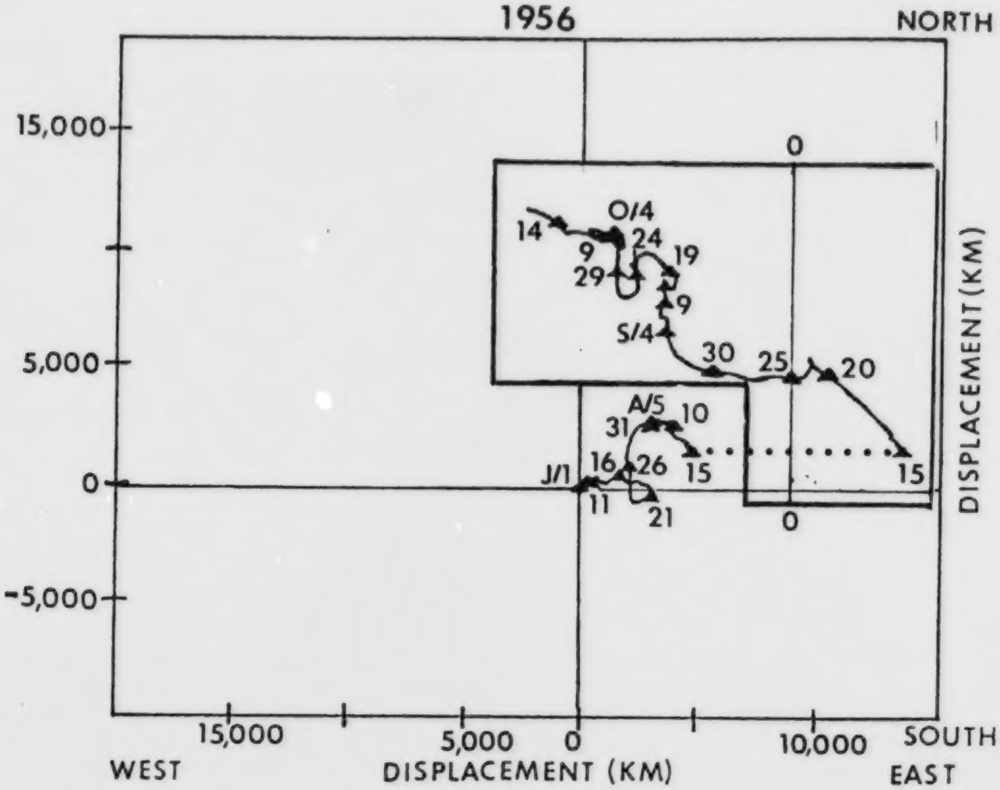


WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | | | | |
| 54-1 | SE | Mod. | 13-Jul-54 | 18-Jul-54 | 5.00 | 1590 | 318 | 3.7 |
| 54-2 | NW | Str. | 18-Jul-54 | 22-Jul-54 | 3.50 | 1403 | 401 | 4.6 |
| 54-3 | E | Mod. | 21-Jul-54 | 26-Jul-54 | 4.75 | 1270 | 267 | 3.1 |
| 54-4 | SSE | Mod. | 30-Jul-54 | 16-Aug-54 | 16.25 | 6231 | 383 | 4.4 |
| 54-5 | S | Mod. | 17-Aug-54 | 21-Aug-54 | 3.50 | 1119 | 320 | 3.7 |
| 54-6 | SW | Str. | 23-Aug-54 | 26-Aug-54 | 3.00 | 1249 | 416 | 4.8 |
| 54-7 | W | Mod. | 24-Aug-54 | 03-Sep-54 | 10.00 | 3461 | 346 | 4.0 |
| 54-8 | S | Mod. | 02-Sep-54 | 11-Sep-54 | 9.25 | 3322 | 359 | 4.2 |
| 54-9 | W | Mod. | 08-Sep-54 | 21-Sep-54 | 12.75 | 4905 | 385 | 4.5 |
| 54-10 | N | Str. | 25-Sep-54 | 28-Sep-54 | 3.25 | 1508 | 464 | 5.4 |
| 54-11 | NW | Extr. | 30-Sep-54 | 07-Oct-54 | 6.75 | 4695 | 696 | 8.1 |

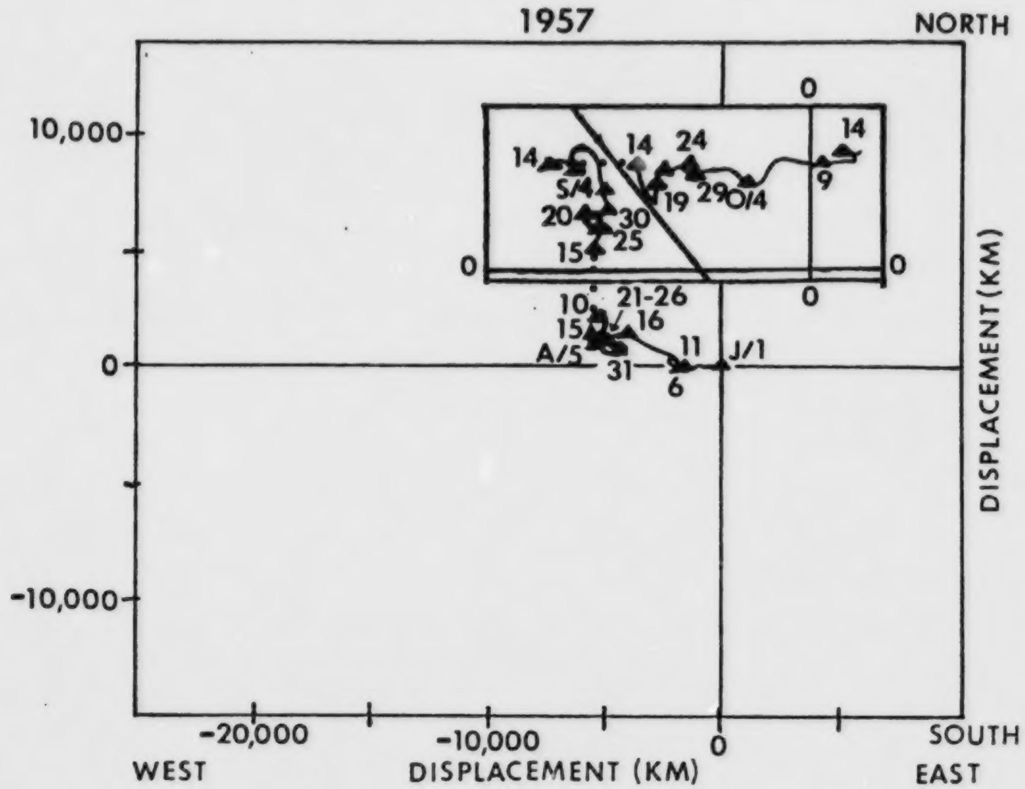


| WIND EVENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 55-1 | SE | Mod. | 04-Jul-55 | 12-Jul-55 | 8.25 | 2346 | 284 | 3.3 |
| 55-2 | NW | Mod. | 17-Jul-55 | 24-Jul-55 | 6.50 | 2138 | 329 | 3.8 |
| 55-3 | NW | Mod. | 24-Jul-55 | 29-Jul-55 | 5.25 | 2035 | 388 | 4.5 |
| 55-4 | NE | Str. | 28-Jul-55 | 31-Jul-55 | 3.25 | 1456 | 448 | 5.2 |
| 55-5 | NNW | Mod. | 06-Aug-55 | 14-Aug-55 | 7.50 | 2474 | 330 | 3.8 |
| 55-6 | NW | Extr. | 16-Aug-55 | 23-Aug-55 | 6.75 | 3891 | 576 | 6.7 |
| 55-7 | S | Str. | 23-Aug-55 | 25-Aug-55 | 2.25 | 1194 | 531 | 6.1 |
| 55-8 | SW | Mod. | 27-Aug-55 | 30-Aug-55 | 3.25 | 1148 | 353 | 4.1 |
| 55-9 | E | Mod. | 31-Aug-55 | 04-Sep-55 | 3.50 | 1361 | 389 | 4.5 |
| 55-10 | SE | Str. | 10-Sep-55 | 16-Sep-55 | 6.00 | 2741 | 457 | 5.3 |
| 55-11 | SW | Str. | 19-Sep-55 | 24-Sep-55 | 4.50 | 2245 | 499 | 5.8 |
| 55-12 | N | Str. | 24-Sep-55 | 27-Sep-55 | 3.25 | 1718 | 529 | 6.1 |
| 55-13 | S | Str. | 27-Sep-55 | 04-Oct-55 | 7.00 | 3149 | 450 | 5.2 |
| 55-14 | E | Mod. | 03-Oct-55 | 08-Oct-55 | 5.25 | 1476 | 281 | 3.3 |
| 55-15 | SE | Extr. | 09-Oct-55 | 13-Oct-55 | 3.25 | 2755 | 848 | 9.8 |

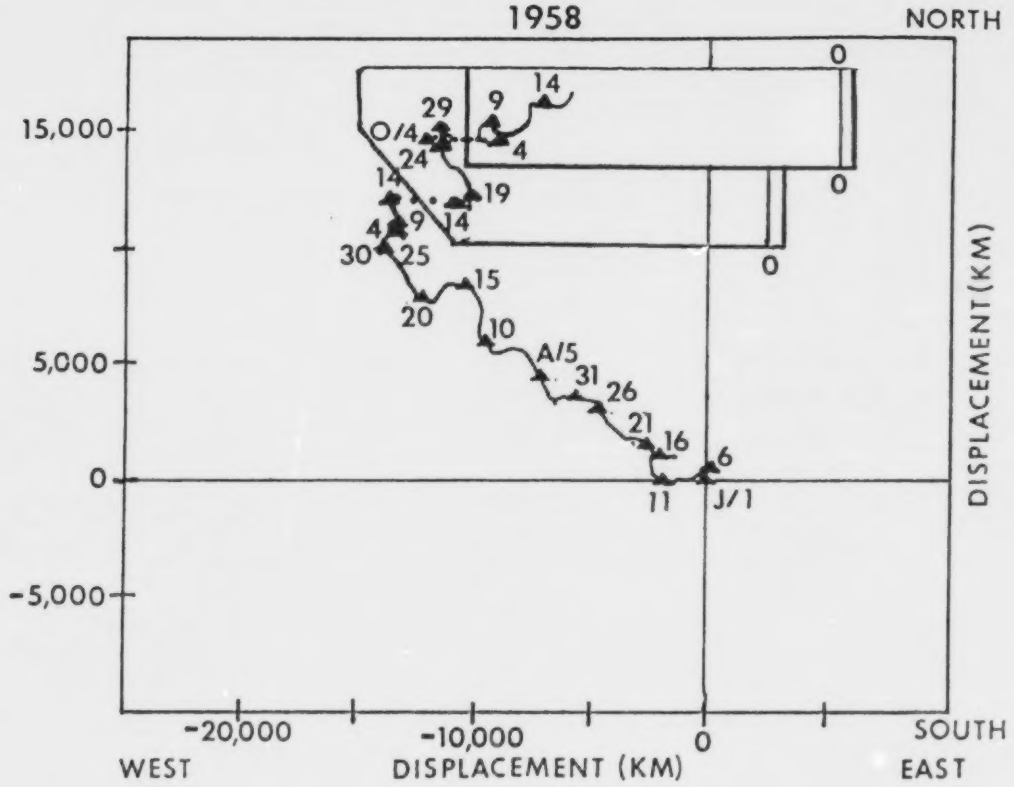


WIND EVENTS

| Event | Dir'n | Mag. | Start Time | Stop Time | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
|---|---|---|---|---|---|---|---|---|
| 56-1 | S | Str. | 22-Jul-56 | 29-Jul-56 | 7.25 | 3386 | 467 | 5.4 |
| 56-2 | NW | Str. | 11-Aug-56 | 14-Aug-56 | 3.25 | 1645 | 506 | 5.9 |
| 56-3 | SE | Extr. | 14-Aug-56 | 21-Aug-56 | 7.00 | 5654 | 808 | 9.3 |
| 56-4 | SE | Mod. | 23-Aug-56 | 09-Sep-56 | 16.75 | 6235 | 372 | 4.3 |
| 56-5 | SE | Mod. | 17-Sep-56 | 22-Sep-56 | 5.25 | 1982 | 378 | 4.4 |
| 56-6 | NNE | Mod. | 21-Sep-56 | 26-Sep-56 | 5.25 | 1900 | 362 | 4.2 |
| 56-7 | S | Str. | 26-Sep-56 | 01-Oct-56 | 4.75 | 2213 | 466 | 5.4 |
| 56-8 | E | Mod. | 03-Oct-56 | 07-Oct-56 | 3.75 | 1445 | 385 | 4.5 |
| 56-9 | E | Str. | 09-Oct-56 | 13-Oct-56 | 3.50 | 1790 | 511 | 5.9 |

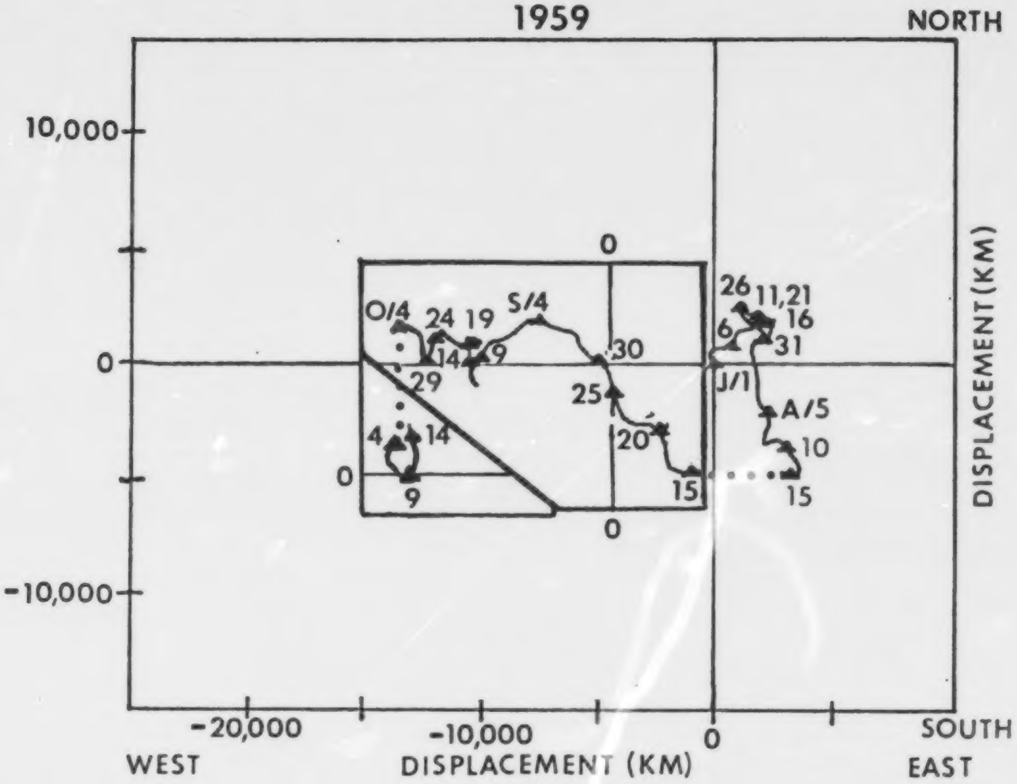


| WIND EVENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Start Time | Stop | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
| 57-1 | E | Str. | 11-Jul-57 | 19-Jul-57 | 7.50 | 3263 | 435 | 5.0 |
| 57-2 | SE | Mod. | 01-Aug-57 | 07-Aug-57 | 5.75 | 1497 | 260 | 3.0 |
| 57-3 | SSE | Mod. | 09-Aug-57 | 13-Aug-57 | 4.50 | 1538 | 342 | 4.0 |
| 57-4 | NW | Mod. | 20-Aug-57 | 24-Aug-57 | 4.00 | 1247 | 312 | 3.6 |
| 57-5 | SE | Str. | 03-Sep-57 | 07-Sep-57 | 4.50 | 2332 | 518 | 6.0 |
| 57-6 | E | Str. | 11-Sep-57 | 14-Sep-57 | 3.25 | 1385 | 426 | 4.9 |
| 57-7 | NW | Str. | 14-Sep-57 | 18-Sep-57 | 3.75 | 1662 | 443 | 5.1 |
| 57-8 | SW | Mod. | 17-Sep-57 | 22-Sep-57 | 5.25 | 1989 | 379 | 4.4 |
| 57-9 | W | Extr. | 30-Sep-57 | 11-Oct-57 | 11.25 | 6994 | 622 | 7.2 |



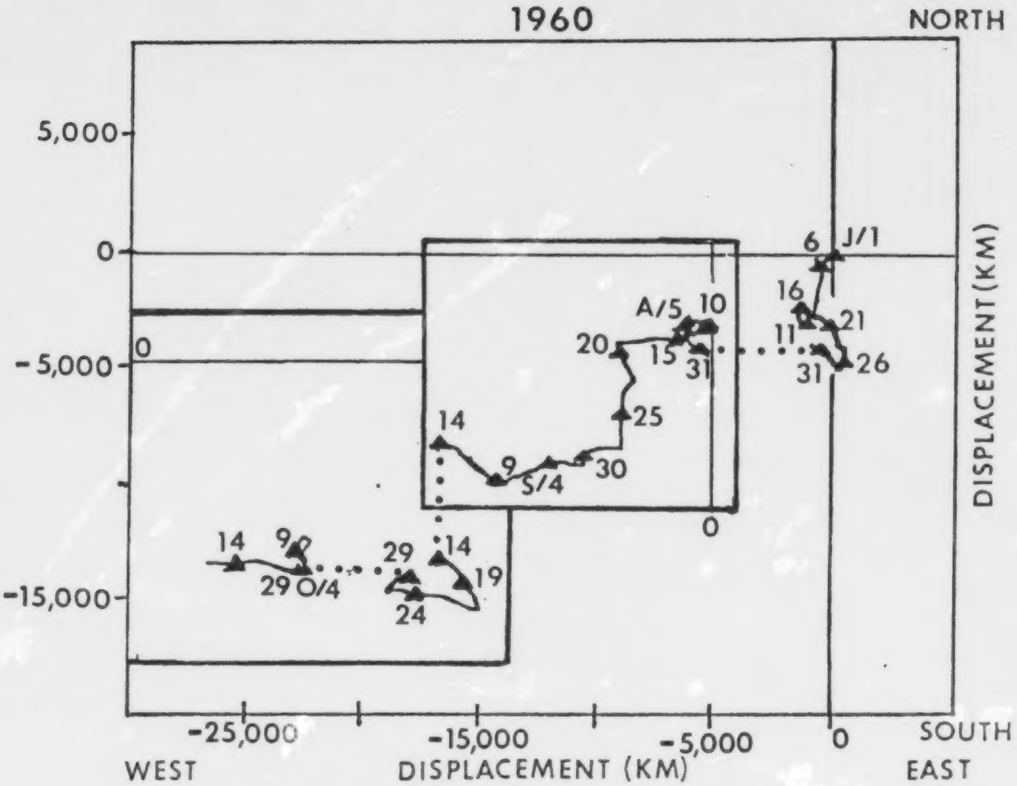
## WIND EVENTS

| Event | Dir'n | Mag. | Start<br>Time | Stop | Duration<br>(d) | Distance<br>(km) | Speed<br>(km/d) | Speed<br>(m/s) |
|---|---|---|---|---|---|---|---|---|
| 58-1 | E | Mod. | 05-Jul-58 | 14-Jul-58 | 9.00 | 2619 | 291 | 3.4 |
| 58-2 | SE | Str. | 18-Jul-58 | 26-Jul-58 | 8.25 | 3762 | 456 | 5.3 |
| 58-3 | SE | Mod. | 28-Jul-58 | 01-Aug-58 | 4.75 | 1578 | 332 | 3.8 |
| 58-4 | SE | Str. | 02-Aug-58 | 17-Aug-58 | 15.00 | 6599 | 440 | 5.1 |
| 58-5 | SE | Str. | 18-Aug-58 | 26-Aug-58 | 7.25 | 3074 | 424 | 4.9 |
| 58-6 | SE | Mod. | 11-Sep-58 | 14-Sep-58 | 3.25 | 1100 | 338 | 3.9 |
| 58-7 | SE | Str. | 17-Sep-58 | 26-Sep-58 | 8.50 | 3771 | 444 | 5.1 |
| 58-8 | NW | Mod. | 26-Sep-58 | 01-Oct-58 | 5.00 | 1518 | 304 | 3.5 |
| 58-9 | SE | Str. | 01-Oct-58 | 05-Oct-58 | 4.25 | 1834 | 432 | 5.0 |
| 58-10 | SW | Str. | 07-Oct-58 | 13-Oct-58 | 5.75 | 2571 | 447 | 5.2 |



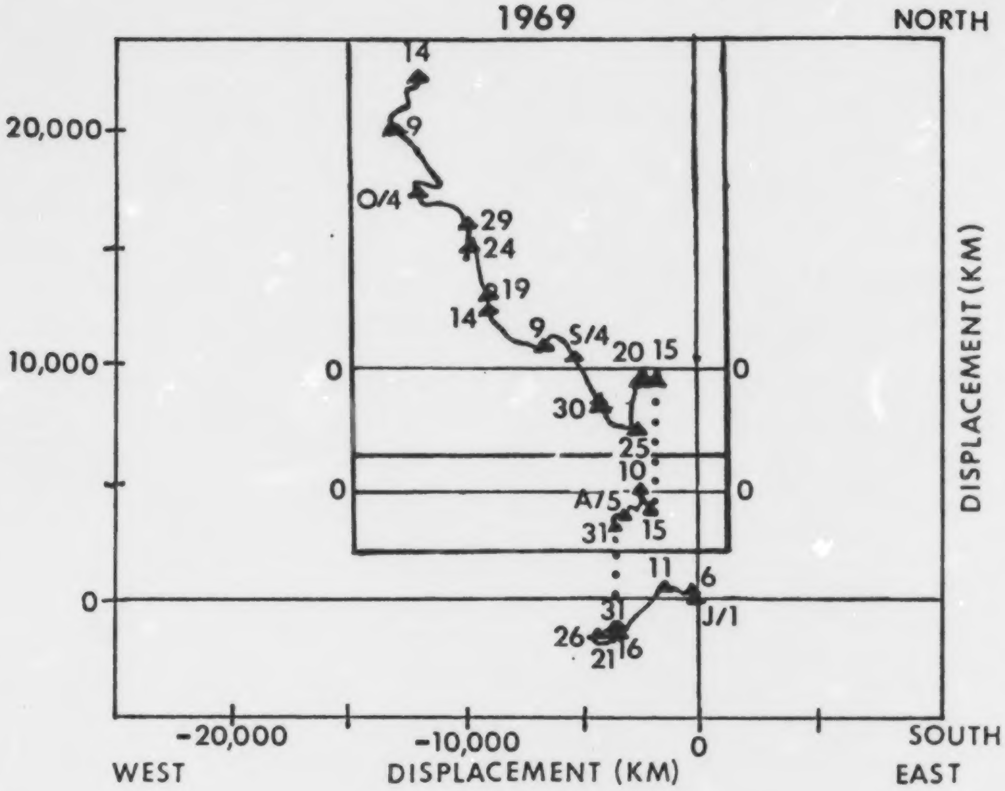
WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 59-1 | SW | Mod. | 04-Jul-59 | 12-Jul-59 | 8.25 | 2530 | 307 | 3.5 |
| 59-2 | SSE | Mod. | 15-Jul-59 | 19-Jul-59 | 3.75 | 1299 | 346 | 4.0 |
| 59-3 | SE | Mod. | 20-Jul-59 | 25-Jul-59 | 4.50 | 1379 | 306 | 3.5 |
| 59-4 | NNE | Str. | 25-Jul-59 | 08-Aug-59 | 14.00 | 5898 | 421 | 4.9 |
| 59-5 | W | Mod. | 07-Aug-59 | 13-Aug-59 | 5.25 | 1536 | 293 | 3.4 |
| 59-6 | SE | Str. | 14-Aug-59 | 25-Aug-59 | 11.00 | 4828 | 439 | 5.1 |
| 59-7 | SE | Str. | 27-Aug-59 | 08-Sep-59 | 11.75 | 5752 | 490 | 5.7 |
| 59-8 | SSE | Str. | 12-Sep-59 | 16-Sep-59 | 4.00 | 1991 | 498 | 5.8 |
| 59-9 | E | Str. | 18-Sep-59 | 21-Sep-59 | 3.75 | 1661 | 443 | 5.1 |
| 59-10 | SW | Str. | 29-Sep-59 | 02-Oct-59 | 2.75 | 1268 | 461 | 5.3 |
| 59-11 | NNW | Str. | 03-Oct-59 | 07-Oct-59 | 4.25 | 1828 | 430 | 5.0 |



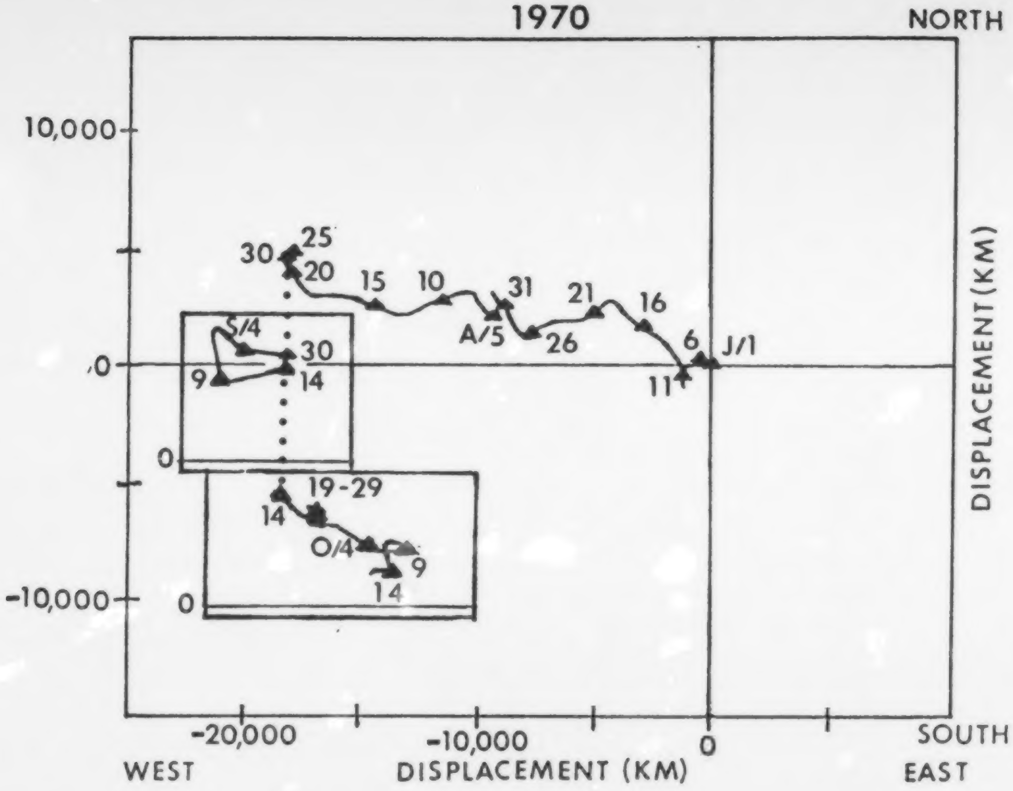
WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 60-1 | NNE | Str. | 05-Jul-60 | 11-Jul-60 | 6.75 | 2758 | 409 | 4.7 |
| 60-2 | NW | Mod. | 15-Jul-60 | 27-Jul-60 | 11.75 | 2971 | 253 | 2.9 |
| 60-3 | SE | Mod. | 27-Jul-60 | 04-Aug-60 | 8.00 | 2279 | 285 | 3.3 |
| 60-4 | E | Str. | 12-Aug-60 | 19-Aug-60 | 7.25 | 3701 | 510 | 5.9 |
| 60-5 | NNW | Str. | 19-Aug-60 | 27-Aug-60 | 8.50 | 4445 | 523 | 6.1 |
| 60-6 | E | Str. | 27-Aug-60 | 30-Aug-60 | 3.50 | 1629 | 465 | 5.4 |
| 60-7 | E | Str. | 31-Aug-60 | 14-Sep-60 | 14.00 | 6149 | 439 | 5.1 |
| 60-8 | NW | Extr. | 18-Sep-60 | 21-Sep-60 | 3.25 | 1996 | 614 | 7.1 |
| 60-9 | E | Extr. | 21-Sep-60 | 26-Sep-60 | 5.75 | 4001 | 696 | 8.1 |
| 60-10 | W | Mod. | 26-Sep-60 | 01-Oct-60 | 4.75 | 1768 | 372 | 4.3 |
| 60-11 | SE | Mod. | 01-Oct-60 | 05-Oct-60 | 4.00 | 1296 | 324 | 3.8 |
| 60-12 | E | Mod. | 06-Oct-60 | 13-Oct-60 | 6.25 | 2141 | 343 | 4.0 |



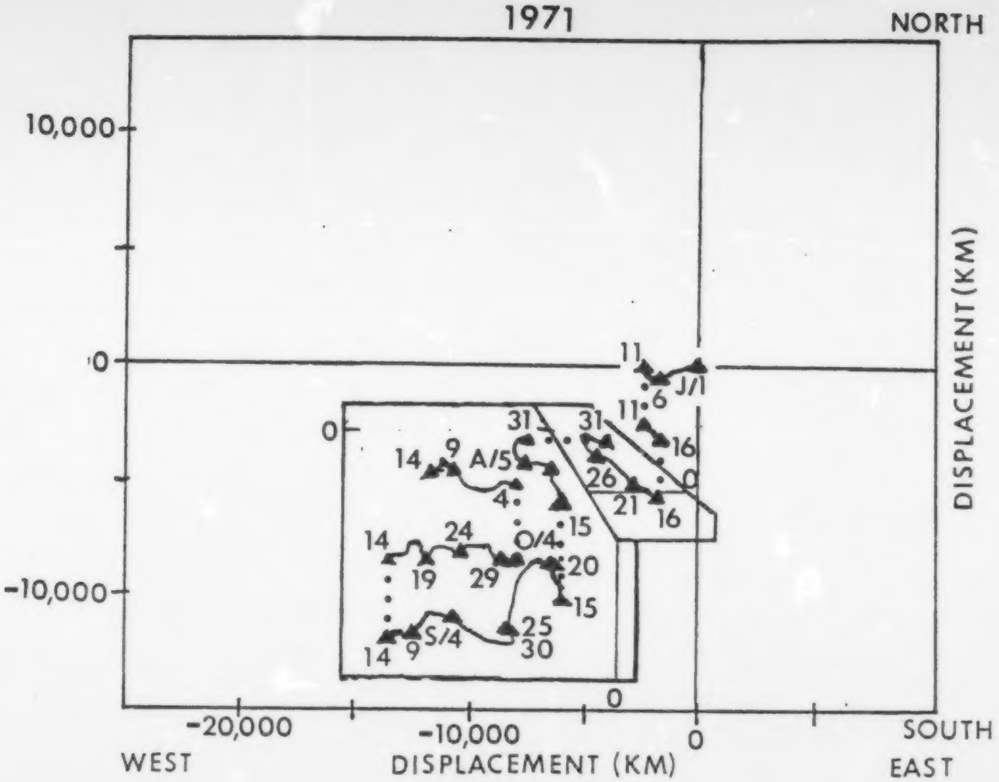
WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | | | | |
| 69-1 | NE | Mod. | 07-Jul-69 | 16-Jul-69 | 9.00 | 3422 | 380 | 4.4 |
| 69-2 | W | Str. | 27-Jul-69 | 30-Jul-69 | 3.00 | 1269 | 423 | 4.9 |
| 69-3 | SW | Mod. | 04-Aug-69 | 08-Aug-69 | 4.50 | 1163 | 258 | 3.0 |
| 69-4 | NW | Str. | 11-Aug-69 | 14-Aug-69 | 3.25 | 1317 | 405 | 4.7 |
| 69-5 | NNE | Extr. | 20-Aug-69 | 24-Aug-69 | 4.25 | 2379 | 560 | 6.5 |
| 69-6 | SE | Mod. | 24-Aug-69 | 08-Sep-69 | 14.50 | 5386 | 371 | 4.3 |
| 69-7 | SE | Str. | 09-Sep-69 | 16-Sep-69 | 7.00 | 3530 | 504 | 5.8 |
| 69-8 | SSE | Extr. | 19-Sep-69 | 23-Sep-69 | 4.00 | 2446 | 612 | 7.1 |
| 69-9 | SE | Str. | 26-Sep-69 | 05-Oct-69 | 9.00 | 3723 | 414 | 4.8 |
| 69-10 | SE | Extr. | 06-Oct-69 | 10-Oct-69 | 3.50 | 3431 | 980 | 11.3 |



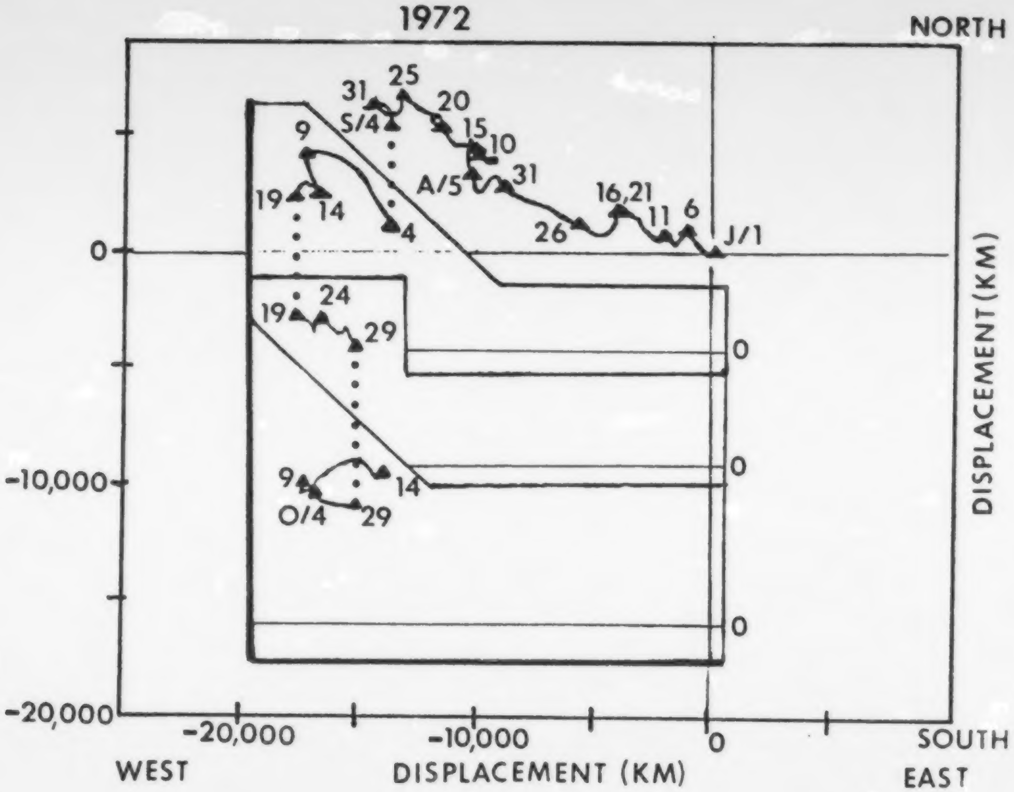
WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | | | | |
| 70-1 | E | Mod. | 10-Jul-70 | 27-Jul-70 | 16.50 | 6410 | 388 | 4.5 |
| 70-2 | SE | Str. | 28-Jul-70 | 02-Aug-70 | 5.75 | 2389 | 415 | 4.8 |
| 70-3 | E | Str. | 04-Aug-70 | 22-Aug-70 | 18.00 | 8863 | 492 | 5.7 |
| 70-4 | SE | Extr. | 01-Sep-70 | 06-Sep-70 | 5.00 | 3150 | 630 | 7.3 |
| 70-5 | NW | Str. | 06-Sep-70 | 16-Sep-70 | 10.75 | 5182 | 482 | 5.6 |
| 70-6 | W | Mod. | 29-Sep-70 | 09-Oct-70 | 10.50 | 3616 | 344 | 4.0 |



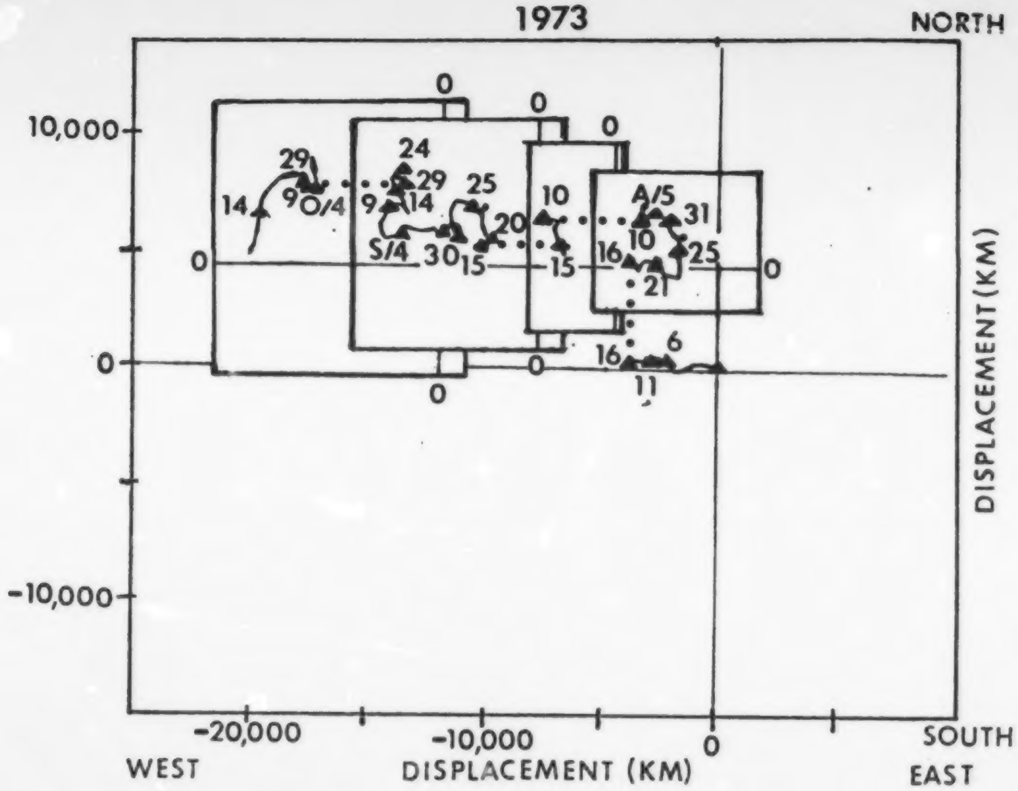
WIND EVENTS

| Event | Dir'n | Mag. | Start Time | Stop Time | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
|---|---|---|---|---|---|---|---|---|
| 71-1 | SE | Str. | 18-Jul-71 | 29-Jul-71 | 10.25 | 4220 | 412 | 4.8 |
| 71-2 | W | Mod. | 29-Jul-71 | 01-Aug-71 | 3.25 | 1135 | 349 | 4.0 |
| 71-3 | NW | Mod. | 03-Aug-71 | 09-Aug-71 | 6.00 | 1939 | 323 | 3.7 |
| 71-4 | NNW | Mod. | 10-Aug-71 | 16-Aug-71 | 5.50 | 1556 | 283 | 3.3 |
| 71-5 | SE | Mod. | 16-Aug-71 | 21-Aug-71 | 5.75 | 2155 | 375 | 4.3 |
| 71-6 | NNE | Extr. | 21-Aug-71 | 25-Aug-71 | 4.25 | 2848 | 670 | 7.8 |
| 71-7 | SE | Extr. | 31-Aug-71 | 06-Sep-71 | 6.00 | 3389 | 565 | 6.5 |
| 71-8 | W | Mod. | 14-Sep-71 | 01-Oct-71 | 16.50 | 5350 | 324 | 3.8 |
| 71-9 | E | Mod. | 01-Oct-71 | 12-Oct-71 | 11.25 | 3311 | 294 | 3.4 |



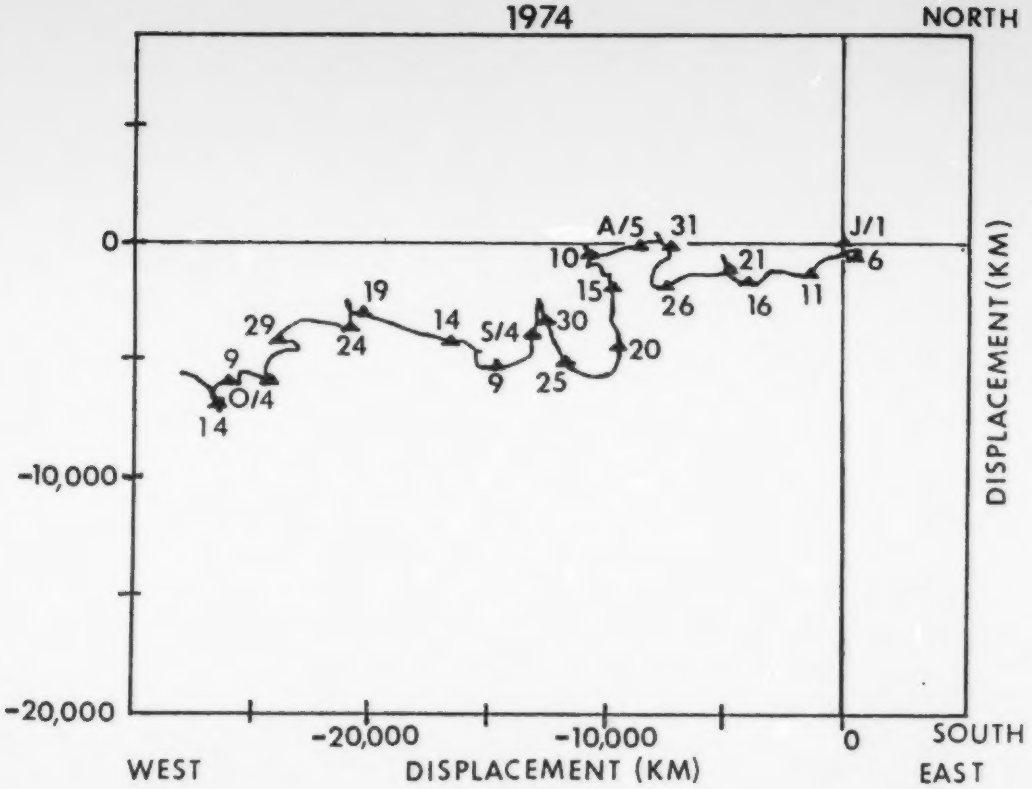
### WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 72-1 | SE | Mod. | 11-Jul-72 | 11-Jul-72 | 6.00 | 2213 | 369 | 4.3 |
| 72-2 | N | Mod. | 20-Jul-72 | 24-Jul-72 | 4.25 | 1142 | 269 | 3.1 |
| 72-3 | SE | Str. | 23-Jul-72 | 02-Aug-72 | 9.25 | 5042 | 545 | 6.3 |
| 72-4 | SSE | Str. | 02-Aug-72 | 07-Aug-72 | 3.75 | 1888 | 503 | 5.8 |
| 72-5 | SE | Str. | 13-Aug-72 | 16-Aug-72 | 2.75 | 1471 | 535 | 6.2 |
| 72-6 | SE | Str. | 17-Aug-72 | 21-Aug-72 | 4.00 | 1880 | 470 | 5.4 |
| 72-7 | SE | Str. | 22-Aug-72 | 25-Aug-72 | 3.50 | 1676 | 479 | 5.5 |
| 72-8 | E | Mod. | 26-Aug-72 | 31-Aug-72 | 4.75 | 1411 | 297 | 3.4 |
| 72-9 | NW | Extr. | 31-Aug-72 | 03-Sep-72 | 2.75 | 1815 | 660 | 7.6 |
| 72-10 | SE | Extr. | 03-Sep-72 | 09-Sep-72 | 5.50 | 4904 | 892 | 10.3 |
| 72-11 | NW | Str. | 09-Sep-72 | 13-Sep-72 | 4.50 | 1962 | 436 | 5.0 |
| 72-12 | SE | Mod. | 13-Sep-72 | 16-Sep-72 | 3.25 | 1204 | 370 | 4.3 |
| 72-13 | NW | Mod. | 24-Sep-72 | 29-Sep-72 | 5.00 | 1945 | 389 | 4.5 |
| 72-14 | E | Extr. | 29-Sep-72 | 02-Oct-72 | 3.25 | 2321 | 714 | 8.3 |
| 72-15 | NW | Str. | 02-Oct-72 | 05-Oct-72 | 2.50 | 1118 | 447 | 5.2 |
| 72-16 | SE | Str. | 05-Oct-72 | 07-Oct-72 | 2.50 | 1141 | 456 | 5.3 |
| 72-17 | NE | Extr. | 08-Oct-72 | 13-Oct-72 | 4.25 | 2601 | 612 | 7.1 |

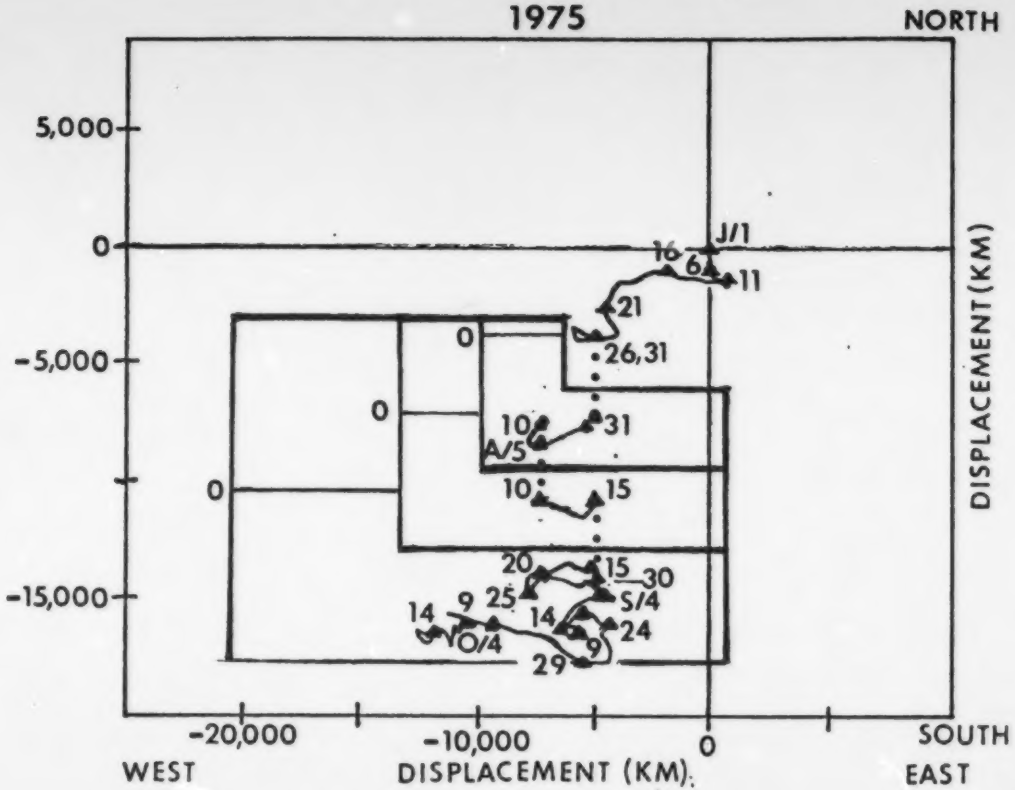


WIND EVENTS

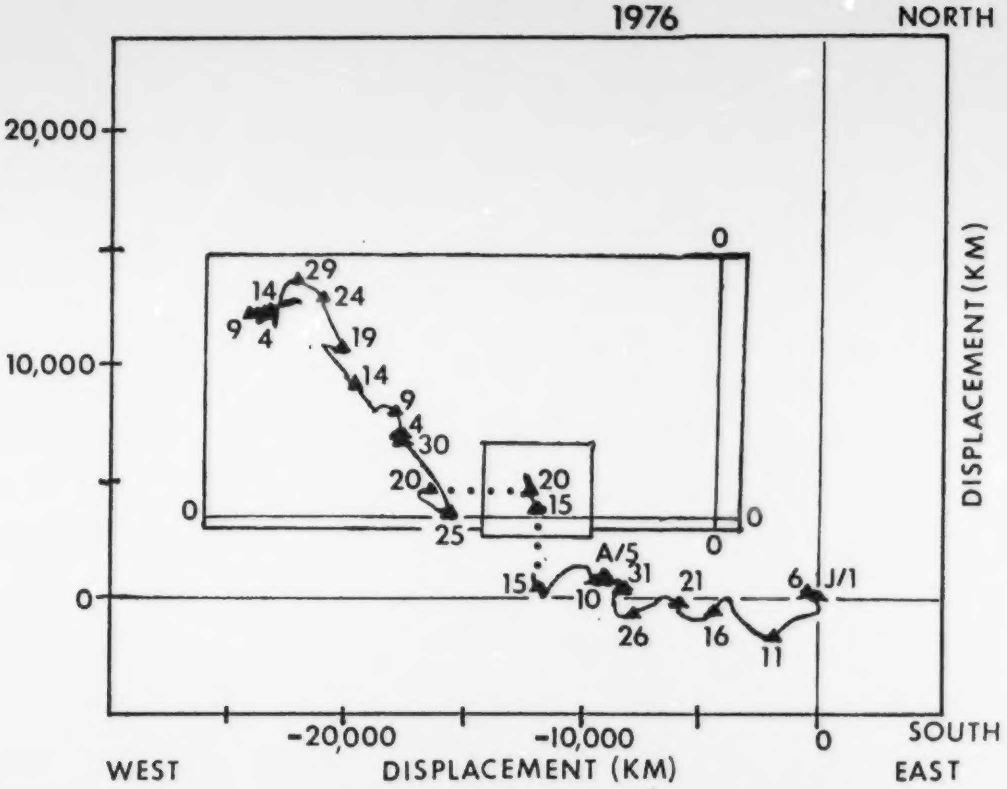
| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 73-1 | SE | Mod. | 04-Jul-73 | 09-Jul-73 | 5.00 | 1359 | 272 | 3.1 |
| 73-2 | E | Str. | 12-Jul-73 | 15-Jul-73 | 3.00 | 1381 | 460 | 5.3 |
| 73-3 | W | Mod. | 15-Jul-73 | 24-Jul-73 | 8.25 | 2229 | 270 | 3.1 |
| 73-4 | S | Mod. | 23-Jul-73 | 27-Jul-73 | 4.75 | 1700 | 358 | 4.1 |
| 73-5 | E | Str. | 03-Aug-73 | 07-Aug-73 | 3.75 | 1691 | 451 | 5.2 |
| 73-6 | NW | Mod. | 08-Aug-73 | 12-Aug-73 | 4.50 | 1196 | 266 | 3.1 |
| 73-7 | NW | Mod. | 13-Aug-73 | 16-Aug-73 | 3.25 | 1122 | 345 | 4.0 |
| 73-8 | SSE | Extr. | 20-Aug-73 | 22-Aug-73 | 2.50 | 1478 | 591 | 6.8 |
| 73-9 | SE | Str. | 24-Aug-73 | 26-Aug-73 | 2.75 | 1127 | 410 | 4.7 |
| 73-10 | NNW | Mod. | 26-Aug-73 | 30-Aug-73 | 4.25 | 1574 | 370 | 4.3 |
| 73-11 | SE | Mod. | 03-Sep-73 | 08-Sep-73 | 4.25 | 1325 | 312 | 3.6 |
| 73-12 | SSW | Mod. | 10-Sep-73 | 14-Sep-73 | 4.25 | 1443 | 340 | 3.9 |
| 73-13 | SE | Extr. | 16-Sep-73 | 18-Sep-73 | 2.50 | 1557 | 623 | 7.2 |
| 73-14 | S | Str. | 30-Sep-73 | 02-Oct-73 | 2.25 | 1187 | 528 | 6.1 |
| 73-15 | NNW | Extr. | 02-Oct-73 | 05-Oct-73 | 2.25 | 1407 | 625 | 7.2 |
| 73-16 | E | Mod. | 10-Oct-73 | 13-Oct-73 | 3.00 | 1183 | 394 | 4.6 |



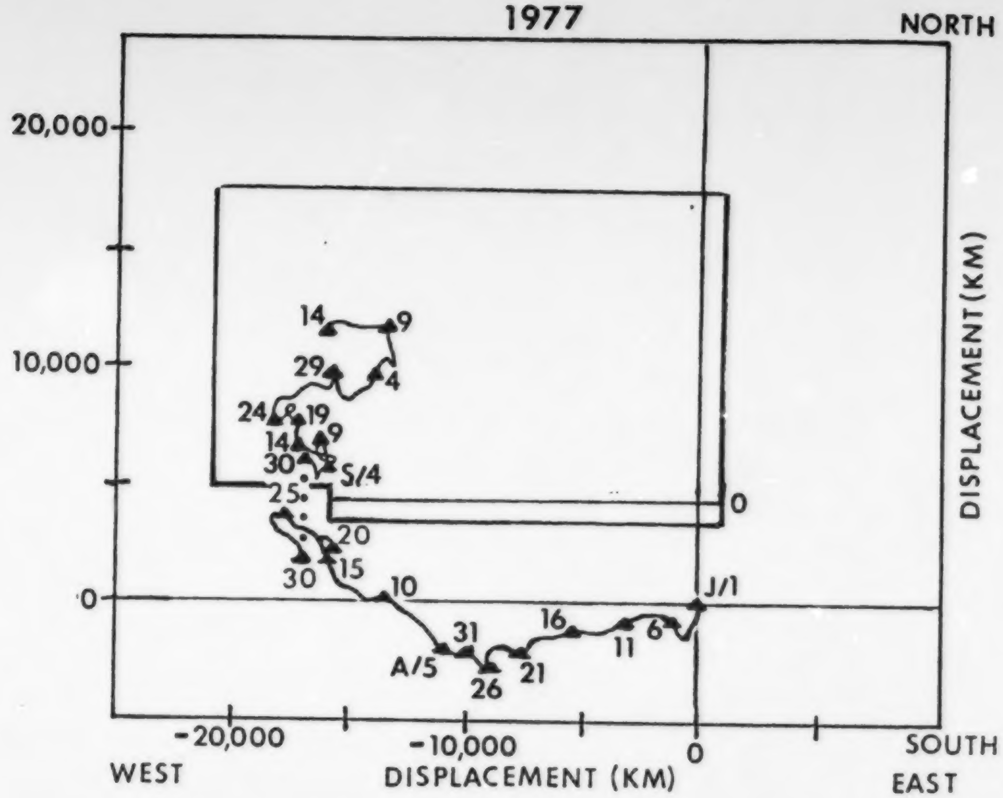
| WIND EVENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 74-1 | E | Mod. | 04-Jul-74 | 20-Jul-74 | 15.75 | 5761 | 366 | 4.2 |
| 74-2 | E | Str. | 21-Jul-74 | 28-Jul-74 | 6.50 | 3335 | 513 | 5.9 |
| 74-3 | SW | Str. | 27-Jul-74 | 31-Jul-74 | 3.75 | 1652 | 441 | 5.1 |
| 74-4 | E | Str. | 03-Aug-74 | 09-Aug-74 | 5.75 | 3156 | 549 | 6.4 |
| 74-5 | NNW | Mod. | 09-Aug-74 | 23-Aug-74 | 13.75 | 5401 | 393 | 4.5 |
| 74-6 | SE | Mod. | 22-Aug-74 | 01-Sep-74 | 11.00 | 4366 | 397 | 4.6 |
| 74-7 | NE | Mod. | 01-Sep-74 | 10-Sep-74 | 9.25 | 3604 | 390 | 4.5 |
| 74-8 | E | Str. | 12-Sep-74 | 22-Sep-74 | 10.00 | 5438 | 544 | 6.3 |
| 74-9 | E | Extr. | 23-Sep-74 | 29-Sep-74 | 5.25 | 3080 | 587 | 6.8 |
| 74-10 | NE | Extr. | 01-Oct-74 | 04-Oct-74 | 3.25 | 1902 | 585 | 6.8 |
| 74-11 | SE | Str. | 04-Oct-74 | 07-Oct-74 | 2.25 | 1163 | 517 | 6.0 |
| 74-12 | E | Str. | 08-Oct-74 | 10-Oct-74 | 15.75 | 5761 | 366 | 4.2 |



| WIND EVENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Start Time | Stop | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
| 75-1 | NW | Mod. | 05-Jul-75 | 08-Jul-75 | 3.50 | 1199 | 343 | 4.0 |
| 75-2 | E | Str. | 11-Jul-75 | 21-Jul-75 | 9.75 | 5176 | 531 | 6.1 |
| 75-3 | E | Str. | 24-Jul-75 | 28-Jul-75 | 4.50 | 1863 | 414 | 4.8 |
| 75-4 | NE | Mod. | 31-Jul-75 | 05-Aug-75 | 4.50 | 1757 | 390 | 4.5 |
| 75-5 | NE | Str. | 06-Aug-75 | 08-Aug-75 | 2.50 | 1184 | 474 | 5.5 |
| 75-6 | W | Str. | 08-Aug-75 | 14-Aug-75 | 5.75 | 2796 | 486 | 5.6 |
| 75-7 | E | Mod. | 14-Aug-75 | 22-Aug-75 | 7.75 | 2415 | 312 | 3.6 |
| 75-8 | W | Extr. | 26-Aug-75 | 30-Aug-75 | 4.75 | 3211 | 676 | 7.8 |
| 75-9 | NE | Extr. | 06-Sep-75 | 10-Sep-75 | 3.75 | 2762 | 737 | 8.5 |
| 75-10 | SW | Mod. | 17-Sep-75 | 20-Sep-75 | 3.25 | 1163 | 358 | 4.1 |
| 75-11 | E | Extr. | 26-Sep-75 | 06-Oct-75 | 10.00 | 6612 | 661 | 7.7 |
| 75-12 | NE | Mod. | 08-Oct-75 | 12-Oct-75 | 4.25 | 1108 | 261 | 3.0 |

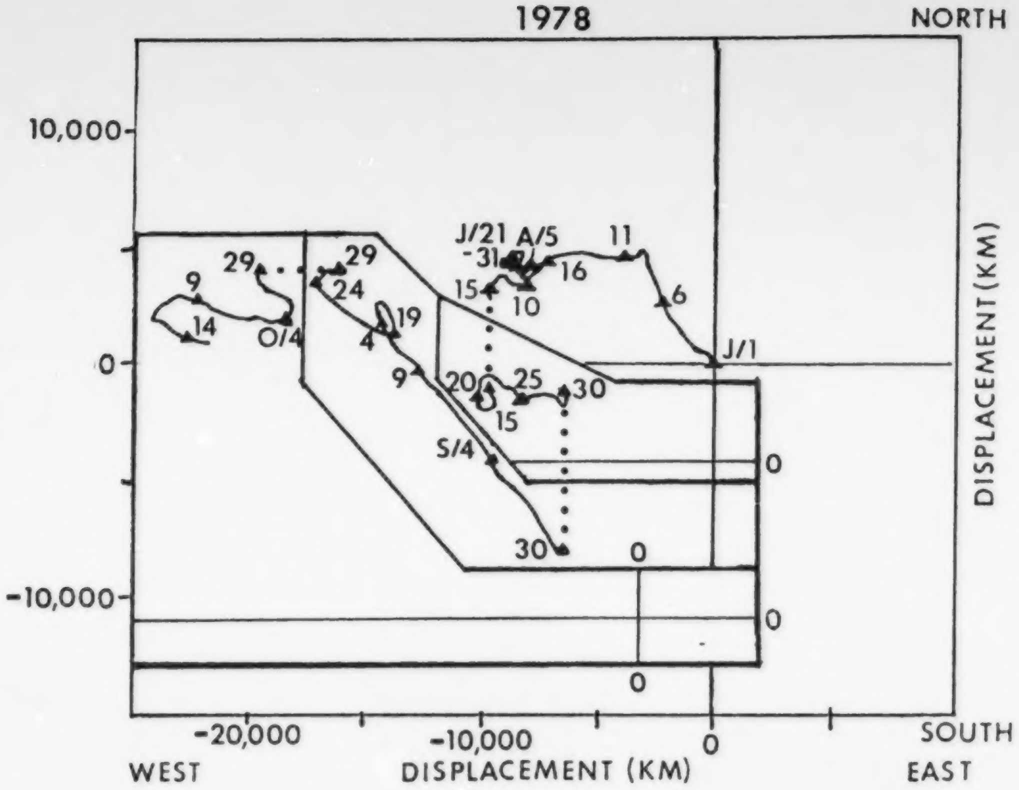


| WIND EVENTS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Start Time | Stop Time | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
| 76-1 | NW | Str. | 05-Jul-76 | 08-Jul-76 | 2.75 | 1231 | 448 | 5.2 |
| 76-2 | E | Str. | 08-Jul-76 | 19-Jul-76 | 12.00 | 5905 | 492 | 5.7 |
| 76-3 | E | Mod. | 20-Jul-76 | 28-Jul-76 | 8.00 | 2732 | 342 | 4.0 |
| 76-4 | SE | Str. | 01-Aug-76 | 04-Aug-76 | 3.00 | 1492 | 497 | 5.8 |
| 76-5 | SSE | Str. | 14-Aug-76 | 17-Aug-76 | 2.75 | 1231 | 448 | 5.2 |
| 76-6 | W | Str. | 21-Aug-76 | 25-Aug-76 | 3.50 | 1413 | 404 | 4.7 |
| 76-7 | SE | Str. | 25-Aug-76 | 01-Sep-76 | 7.75 | 4037 | 521 | 6.0 |
| 76-8 | SSE | Str. | 06-Sep-76 | 10-Sep-76 | 3.50 | 1450 | 414 | 4.8 |
| 76-9 | SE | Str. | 18-Sep-76 | 23-Sep-76 | 4.75 | 2508 | 528 | 6.1 |
| 76-10 | SE | Extr. | 25-Sep-76 | 27-Sep-76 | 2.25 | 1263 | 561 | 6.5 |
| 76-11 | NNE | Extr. | 29-Sep-76 | 02-Oct-76 | 3.00 | 2120 | 707 | 8.2 |



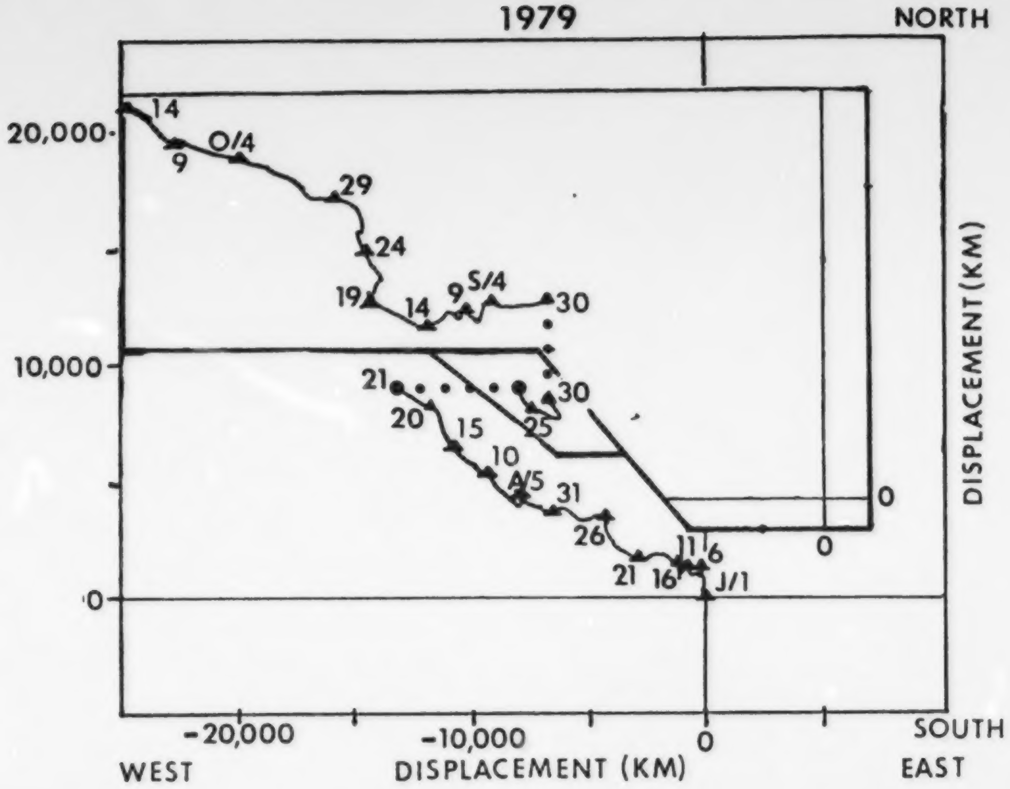
WIND EVENTS

| Event | Dir'n | Mag. | Start<br>Time | Stop | Duration<br>(d) | Distance<br>(km) | Speed<br>(km/d) | Speed<br>(m/s) |
|---|---|---|---|---|---|---|---|---|
| 77-1 | E | Str. | 04-Jul-77 | 24-Jul-77 | 20.50 | 8391 | 409 | 4.7 |
| 77-2 | SE | Str. | 26-Jul-77 | 29-Jul-77 | 3.00 | 1238 | 413 | 4.8 |
| 77-3 | E | Mod. | 30-Jul-77 | 03-Aug-77 | 4.75 | 1288 | 271 | 3.1 |
| 77-4 | SE | Extr. | 05-Aug-77 | 16-Aug-77 | 11.75 | 6756 | 575 | 6.7 |
| 77-5 | SE | Str. | 19-Aug-77 | 26-Aug-77 | 7.25 | 3081 | 425 | 4.9 |
| 77-6 | NW | Mod. | 26-Aug-77 | 03-Sep-77 | 7.75 | 3042 | 393 | 4.5 |
| 77-7 | SSE | Str. | 05-Sep-77 | 08-Sep-77 | 3.00 | 1411 | 470 | 5.4 |
| 77-8 | NNW | Str. | 08-Sep-77 | 10-Sep-77 | 2.25 | 1192 | 530 | 6.1 |
| 77-9 | E | Str. | 11-Sep-77 | 15-Sep-77 | 3.50 | 1710 | 489 | 5.7 |
| 77-10 | SW | Extr. | 24-Sep-77 | 29-Sep-77 | 5.50 | 3177 | 578 | 6.7 |
| 77-11 | SSW | Str. | 01-Oct-77 | 05-Oct-77 | 3.75 | 1725 | 460 | 5.3 |
| 77-12 | SE | Str. | 07-Oct-77 | 13-Oct-77 | 6.00 | 2877 | 480 | 5.5 |



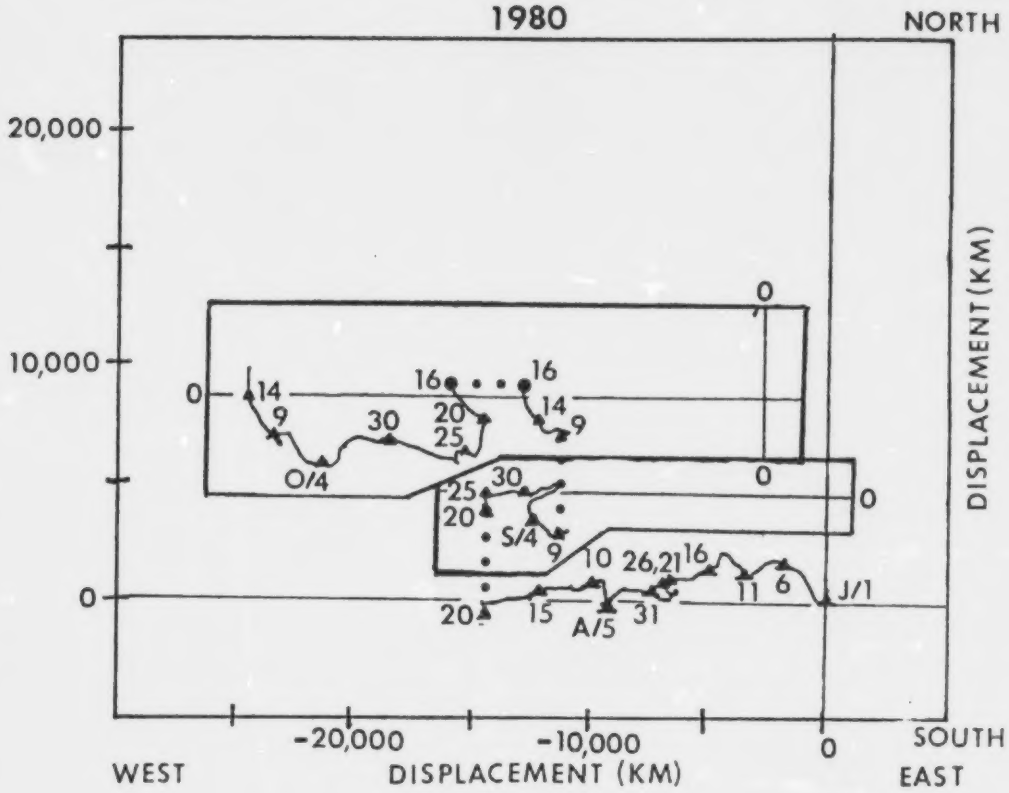
### WIND EVENTS

| Event | Dir'n | Mag. | Start<br>Time | Stop | Duration<br>(d) | Distance<br>(km) | Speed<br>(km/d) | Speed<br>(m/s) |
|---|---|---|---|---|---|---|---|---|
| 78-1 | E | Str. | 04-Jul-78 | 21-Jul-78 | 17.25 | 7518 | 436 | 5.0 |
| 78-2 | E | Mod. | 09-Aug-78 | 15-Aug-78 | 6.00 | 1721 | 287 | 3.3 |
| 78-3 | N | Mod. | 13-Aug-78 | 17-Aug-78 | 4.25 | 1482 | 349 | 4.0 |
| 78-4 | SW | Mod. | 18-Aug-78 | 22-Aug-78 | 4.00 | 1364 | 341 | 3.9 |
| 78-5 | NW | Str. | 21-Aug-78 | 28-Aug-78 | 7.00 | 3231 | 462 | 5.3 |
| 78-6 | SE | Extr. | 28-Aug-78 | 11-Sep-78 | 13.75 | 11176 | 813 | 9.4 |
| 78-7 | SE | Extr. | 12-Sep-78 | 15-Sep-78 | 3.25 | 2260 | 695 | 8.0 |
| 78-8 | NNW | Str. | 15-Sep-78 | 18-Sep-78 | 3.00 | 1560 | 520 | 6.0 |
| 78-9 | SE | Extr. | 18-Sep-78 | 24-Sep-78 | 5.50 | 3971 | 722 | 8.4 |
| 78-10 | SW | Mod. | 23-Sep-78 | 28-Sep-78 | 5.00 | 1296 | 259 | 3.0 |
| 78-11 | NNW | Mod. | 28-Sep-78 | 04-Oct-78 | 6.25 | 2389 | 382 | 4.4 |
| 78-12 | E | Extr. | 03-Oct-78 | 11-Oct-78 | 8.50 | 5091 | 599 | 6.9 |



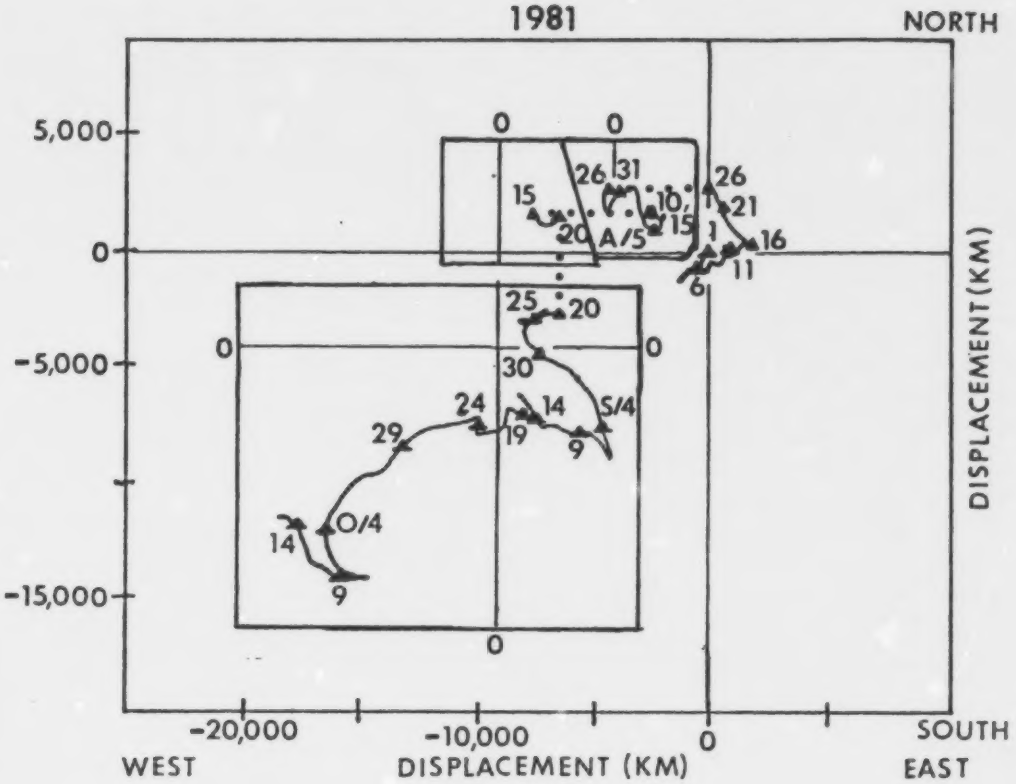
WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 79-1 | SE | Mod. | 16-Jul-79 | 30-Jul-79 | 12.75 | 5000 | 392 | 4.5 |
| 79-2 | E | Str. | 25-Jul-79 | 03-Aug-79 | 9.00 | 3839 | 427 | 4.9 |
| 79-3 | SE | Str. | 06-Aug-79 | 21-Aug-79 | 15.50 | 6670 | 430 | 5.0 |
| 79-4 | NW | Str. | 21-Aug-79 | 25-Aug-79 | 3.25 | 1560 | 480 | 5.6 |
| 79-5 | SE | Mod. | 30-Aug-79 | 05-Sep-79 | 5.25 | 1932 | 368 | 4.3 |
| 79-6 | SE | Str. | 11-Sep-79 | 17-Sep-79 | 6.75 | 3526 | 522 | 6.0 |
| 79-7 | SSE | Str. | 19-Sep-79 | 29-Sep-79 | 10.00 | 4366 | 437 | 5.1 |
| 79-8 | SE | Extr. | 26-Sep-79 | 07-Oct-79 | 11.50 | 8067 | 701 | 8.1 |
| 79-9 | SE | Str. | 08-Oct-79 | 13-Oct-79 | 4.25 | 2177 | 512 | 5.9 |
| 79-1 | SE | Str. | 19-Jul-79 | 30-Jul-79 | 10.25 | 5175 | 505 | 5.8 |

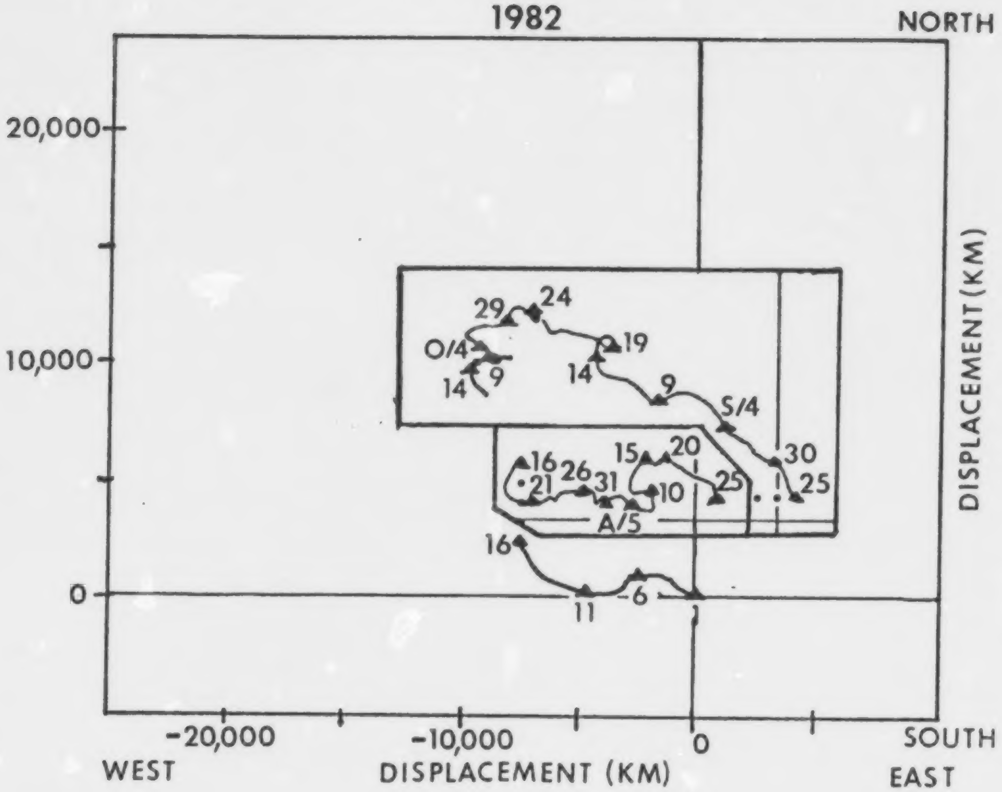


WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 80-1 | E | Mod. | 04-Jul-80 | 25-Jul-80 | 20.75 | 6122 | 295 | 3.4 |
| 80-2 | SE | Str. | 30-Jul-80 | 03-Aug-80 | 3.75 | 2008 | 535 | 6.2 |
| 80-3 | NE | Mod. | 08-Aug-80 | 20-Aug-80 | 12.00 | 4536 | 378 | 4.4 |
| 80-4 | W | Mod. | 24-Aug-80 | 01-Sep-80 | 8.25 | 3091 | 375 | 4.3 |
| 80-5 | NE | Extr. | 01-Sep-80 | 04-Sep-80 | 2.50 | 1694 | 678 | 7.8 |
| 80-6 | W | Mod. | 06-Sep-80 | 10-Sep-80 | 4.00 | 1199 | 300 | 3.5 |
| 80-7 | SE | Extr. | 11-Sep-80 | 16-Sep-80 | 5.00 | 2845 | 569 | 6.6 |
| 80-8 | NW | Str. | 16-Sep-80 | 22-Sep-80 | 5.75 | 2797 | 486 | 5.6 |
| 80-9 | SE | Extr. | 26-Sep-80 | 30-Sep-80 | 4.25 | 3799 | 894 | 10.3 |
| 80-10 | SE | Str. | 02-Oct-80 | 08-Oct-80 | 6.00 | 2762 | 460 | 5.3 |
| 80-11 | SE | Extr. | 10-Oct-80 | 13-Oct-80 | 2.50 | 2218 | 887 | 10.3 |

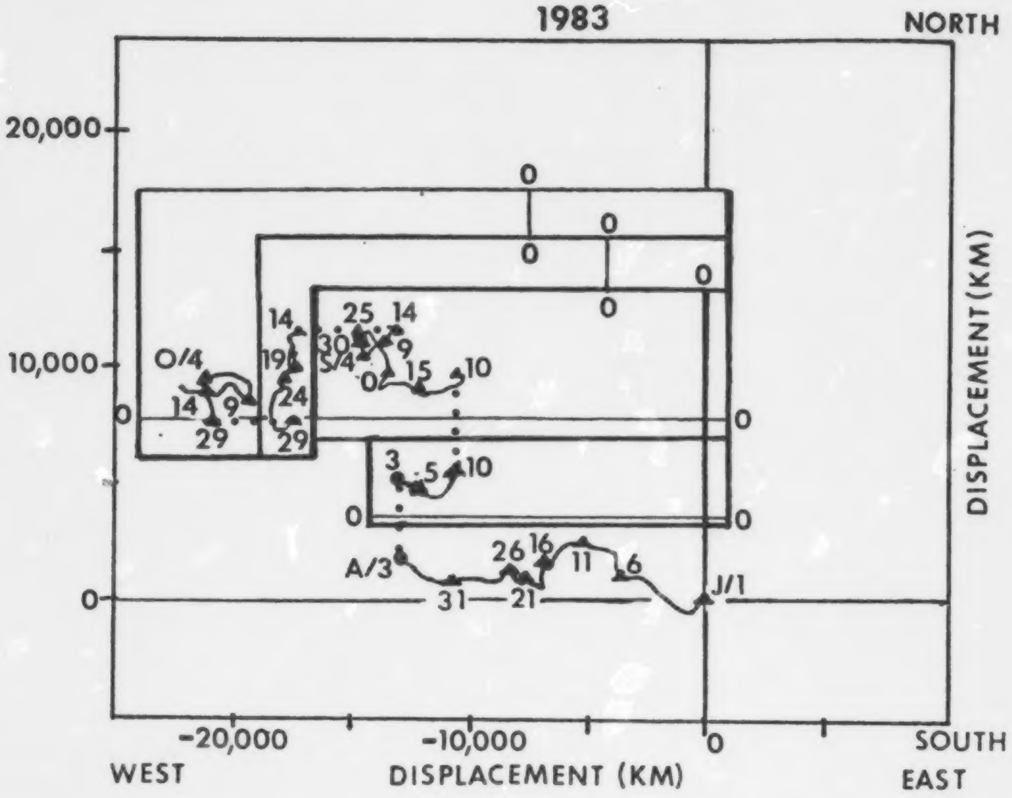


| WIND EVENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 81-1 | W | Mod. | 04-Jul-81 | 11-Jul-81 | 6.75 | 2110 | 313 | 3.6 |
| 81-2 | SE | Extr. | 16-Jul-81 | 20-Jul-81 | 4.00 | 2520 | 630 | 7.3 |
| 81-3 | SE | Mod. | 22-Jul-81 | 26-Jul-81 | 4.25 | 1120 | 264 | 3.1 |
| 81-4 | SW | Mod. | 28-Jul-81 | 02-Aug-81 | 5.25 | 1320 | 251 | 2.9 |
| 81-5 | NW | Str. | 02-Aug-81 | 05-Aug-81 | 3.75 | 1939 | 517 | 6.0 |
| 81-6 | W | Str. | 17-Aug-81 | 20-Aug-81 | 3.00 | 1224 | 408 | 4.7 |
| 81-7 | E | Extr. | 20-Aug-81 | 23-Aug-81 | 3.25 | 1804 | 555 | 6.4 |
| 81-8 | SW | Str. | 23-Aug-81 | 26-Aug-81 | 3.00 | 1222 | 407 | 4.7 |
| 81-9 | NW | Extr. | 28-Aug-81 | 03-Sep-81 | 6.50 | 5107 | 786 | 9.1 |
| 81-10 | NW | Str. | 04-Sep-81 | 06-Sep-81 | 2.50 | 1140 | 456 | 5.3 |
| 81-11 | SE | Str. | 06-Sep-81 | 16-Sep-81 | 10.00 | 4576 | 458 | 5.3 |
| 81-12 | NW | Extr. | 16-Sep-81 | 18-Sep-81 | 1.75 | 1156 | 661 | 7.6 |
| 91-13 | E | Str. | 18-Sep-81 | 23-Sep-81 | 5.25 | 2486 | 474 | 5.5 |
| 81-14 | NE | Extr. | 25-Sep-81 | 05-Oct-81 | 10.25 | 8548 | 834 | 9.7 |
| 81-15 | W | Extr. | 04-Oct-81 | 07-Oct-81 | 2.75 | 1825 | 664 | 7.7 |
| 81-16 | SE | Str. | 07-Oct-81 | 13-Oct-81 | 6.00 | 3152 | 525 | 6.1 |

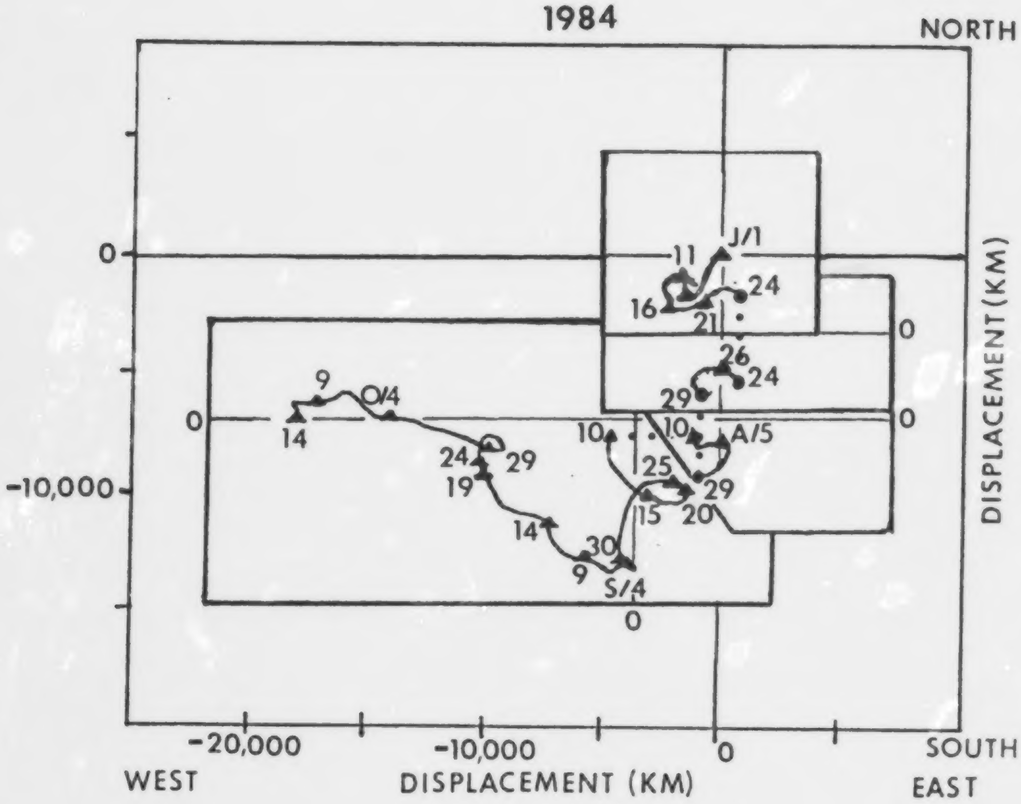


WIND EVENTS

| Event | Dir'n | Mag. | Start Time | Stop Time | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
|---|---|---|---|---|---|---|---|---|
| 82-1 | NE | Mod. | 04-Jul-82 | 14-Jul-82 | 10.00 | 3536 | 354 | 4.1 |
| 82-2 | W | Str. | 19-Jul-82 | 26-Jul-82 | 7.00 | 3130 | 447 | 5.2 |
| 82-3 | NW | Str. | 27-Jul-82 | 30-Jul-82 | 3.00 | 1636 | 545 | 6.3 |
| 82-4 | SE | Str. | 30-Jul-82 | 01-Aug-82 | 2.25 | 1163 | 517 | 6.0 |
| 82-5 | W | Mod. | 01-Aug-82 | 08-Aug-82 | 7.00 | 2603 | 372 | 4.3 |
| 82-6 | SW | Extr. | 13-Aug-82 | 16-Aug-82 | 2.50 | 1611 | 644 | 7.5 |
| 82-7 | NW | Str. | 17-Aug-82 | 24-Aug-82 | 6.75 | 3597 | 533 | 6.2 |
| 82-8 | SE | Str. | 24-Aug-82 | 28-Aug-82 | 3.75 | 1919 | 512 | 5.9 |
| 82-9 | SE | Str. | 29-Aug-82 | 14-Sep-82 | 16.25 | 8582 | 528 | 6.1 |
| 82-10 | SE | Extr. | 18-Sep-82 | 24-Sep-82 | 5.75 | 3658 | 636 | 7.4 |
| 82-11 | E | Str. | 26-Sep-82 | 02-Oct-82 | 6.75 | 3088 | 457 | 5.3 |
| 82-12 | W | Str. | 02-Oct-82 | 06-Oct-82 | 3.75 | 1983 | 529 | 6.1 |

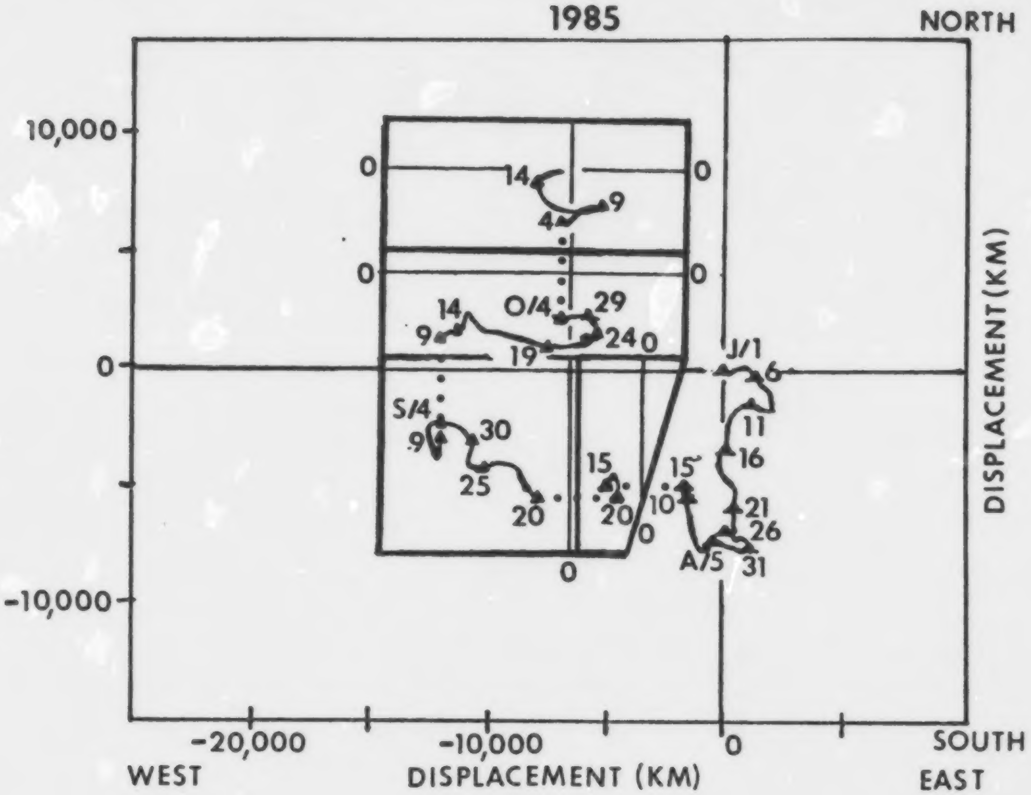


| WIND EVENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 83-1 | E | Mod. | 08-Jul-83 | 15-Jul-83 | 6.50 | 2414 | 371 | 4.3 |
| 83-2 | SE | Str. | 27-Jul-83 | 03-Aug-83 | 6.50 | 2705 | 416 | 4.8 |
| 83-3 | NW | Str. | 03-Aug-83 | 06-Aug-83 | 2.75 | 1310 | 476 | 5.5 |
| 83-4 | E | Str. | 11-Aug-83 | 18-Aug-83 | 7.25 | 3453 | 476 | 5.5 |
| 83-5 | SSW | Mod. | 18-Aug-83 | 24-Aug-83 | 6.25 | 2474 | 396 | 4.6 |
| 83-6 | SW | Mod. | 07-Sep-83 | 10-Sep-83 | 3.75 | 1115 | 297 | 3.4 |
| 83-7 | N | Mod. | 15-Sep-83 | 19-Sep-83 | 4.50 | 1711 | 380 | 4.4 |
| 83-8 | N | Extr. | 22-Sep-83 | 27-Sep-83 | 5.25 | 3344 | 637 | 7.4 |
| 83-9 | SE | Str. | 29-Sep-83 | 02-Oct-83 | 3.50 | 1883 | 538 | 6.2 |
| 83-10 | NW | Mod. | 02-Oct-83 | 05-Oct-83 | 3.00 | 1126 | 375 | 4.3 |
| 83-11 | NW | Str. | 06-Oct-83 | 09-Oct-83 | 2.75 | 1161 | 422 | 4.9 |
| 83-12 | E | Str. | 10-Oct-83 | 13-Oct-83 | 2.75 | 1349 | 491 | 5.7 |



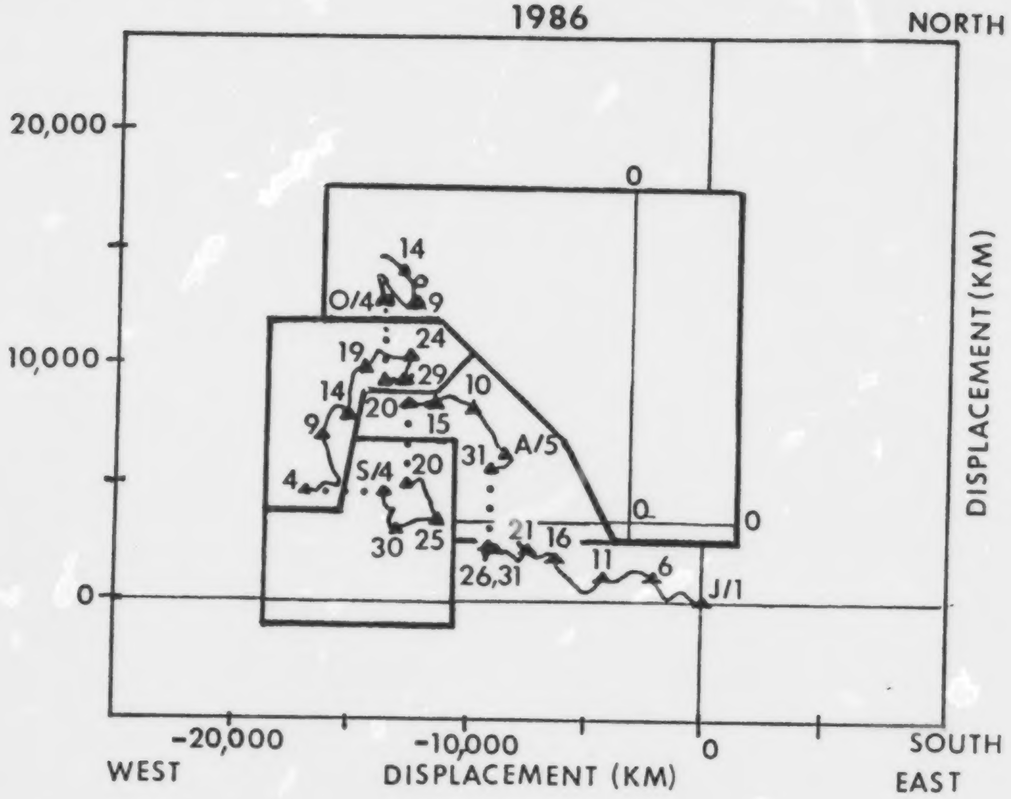
WIND EVENTS

| Event | Dir'n | Mag. | Start Time | Stop | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
|---|---|---|---|---|---|---|---|---|
| 84-1 | E | Mod. | 09-Jul-84 | 13-Jul-84 | 3.50 | 1311 | 375 | 4.3 |
| 84-2 | W | Mod. | 17-Jul-84 | 24-Jul-84 | 7.25 | 2673 | 369 | 4.3 |
| 84-3 | SE | Mod. | 24-Jul-84 | 27-Jul-84 | 3.75 | 1193 | 318 | 3.7 |
| 84-4 | NE | Mod. | 26-Jul-84 | 29-Jul-84 | 3.00 | 1116 | 372 | 4.3 |
| 84-5 | SW | Mod. | 29-Jul-84 | 04-Aug-84 | 5.50 | 1423 | 259 | 3.0 |
| 84-6 | E | Mod. | 04-Aug-84 | 08-Aug-84 | 4.25 | 1418 | 334 | 3.9 |
| 84-7 | NW | Str. | 10-Aug-84 | 18-Aug-84 | 8.00 | 3971 | 496 | 5.7 |
| 84-8 | NE | Extr. | 25-Aug-84 | 29-Aug-84 | 4.25 | 3586 | 844 | 9.8 |
| 84-9 | SE | Mod. | 05-Sep-84 | 14-Sep-84 | 8.50 | 3284 | 386 | 4.5 |
| 84-10 | SE | Str. | 14-Sep-84 | 21-Sep-84 | 6.75 | 3505 | 519 | 6.0 |
| 84-11 | S | Str. | 23-Sep-84 | 27-Sep-84 | 3.50 | 1859 | 531 | 6.1 |
| 84-12 | E | Extr. | 29-Sep-84 | 13-Oct-84 | 14.00 | 8754 | 625 | 7.2 |

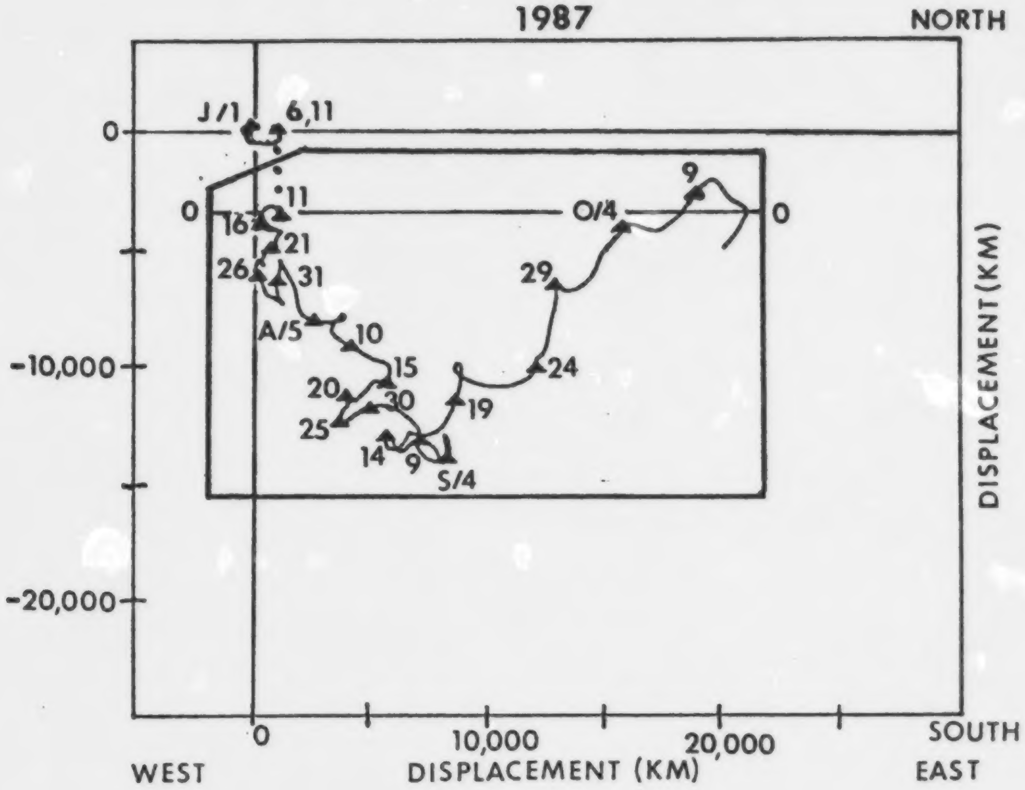


| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 85-1 | NW | Extr. | 04-Jul-85 | 08-Jul-85 | 4.50 | 2511 | 558 | 6.5 |
| 85-2 | E | Mod. | 08-Jul-85 | 14-Jul-85 | 5.75 | 1986 | 345 | 4.0 |
| 85-3 | NW | Mod. | 17-Jul-85 | 24-Jul-85 | 7.00 | 2746 | 392 | 4.5 |
| 85-4 | NW | Mod. | 27-Jul-85 | 31-Jul-85 | 4.00 | 1360 | 340 | 3.9 |
| 85-5 | SE | Mod. | 31-Jul-85 | 05-Aug-85 | 5.00 | 1264 | 253 | 2.9 |
| 85-6 | SSE | Extr. | 06-Aug-85 | 10-Aug-85 | 3.75 | 2865 | 764 | 8.8 |
| 85-7 | SE | Mod. | 20-Aug-85 | 26-Aug-85 | 6.75 | 2629 | 389 | 4.5 |
| 85-8 | SSW | Str. | 27-Aug-85 | 30-Aug-85 | 3.00 | 1355 | 452 | 5.2 |
| 85-9 | SE | Mod. | 31-Aug-85 | 05-Sep-85 | 4.50 | 1759 | 391 | 4.5 |
| 85-10 | NNW | Str. | 04-Sep-85 | 07-Sep-85 | 3.00 | 1607 | 536 | 6.2 |
| 85-11 | S | Str. | 07-Sep-85 | 09-Sep-85 | 2.50 | 1180 | 472 | 5.5 |
| 85-12 | SW | Str. | 12-Sep-85 | 16-Sep-85 | 4.00 | 1828 | 457 | 5.3 |
| 85-13 | NW | Extr. | 15-Sep-85 | 19-Sep-85 | 4.50 | 3211 | 714 | 8.3 |
| 85-14 | SW | Str. | 21-Sep-85 | 24-Sep-85 | 3.50 | 1560 | 446 | 5.2 |
| 85-15 | SSW | Str. | 26-Sep-85 | 29-Sep-85 | 2.50 | 1113 | 445 | 5.2 |
| 85-16 | E | Str. | 30-Sep-85 | 05-Oct-85 | 4.50 | 1978 | 440 | 5.1 |
| 85-17 | SW | Str. | 05-Oct-85 | 09-Oct-85 | 3.50 | 1491 | 426 | 4.9 |
| 85-18 | E | Extr. | 09-Oct-85 | 13-Oct-85 | 3.50 | 2144 | 613 | 7.1 |

WIND EVENTS



| WIND EVENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Event | Dir'n | Mag. | Start Time | Stop | Duration (d) | Distance (km) | Speed (km/d) | Speed (m/s) |
| 86-1 | NE | Mod. | 06-Jul-86 | 13-Jul-86 | 6.75 | 2509 | 372 | 4.3 |
| 86-2 | SE | Mod. | 12-Jul-86 | 16-Jul-86 | 4.25 | 1457 | 343 | 4.0 |
| 86-3 | SE | Mod. | 22-Jul-86 | 26-Jul-86 | 4.00 | 1126 | 282 | 3.3 |
| 86-4 | W | Mod. | 30-Jul-86 | 04-Aug-86 | 4.75 | 1357 | 286 | 3.3 |
| 86-5 | SE | Extr. | 04-Aug-86 | 07-Aug-86 | 3.75 | 2112 | 563 | 6.5 |
| 86-6 | E | Mod. | 08-Aug-86 | 19-Aug-86 | 11.00 | 3277 | 298 | 3.4 |
| 86-7 | NNW | Extr. | 22-Aug-86 | 26-Aug-86 | 3.50 | 2150 | 614 | 7.1 |
| 86-8 | E | Str. | 26-Aug-86 | 31-Aug-86 | 4.50 | 2380 | 529 | 6.1 |
| 86-9 | W | Str. | 03-Sep-86 | 07-Sep-86 | 3.50 | 1467 | 419 | 4.9 |
| 86-10 | SE | Extr. | 07-Sep-86 | 10-Sep-86 | 3.25 | 2142 | 659 | 7.6 |
| 86-11 | SW | Str. | 11-Sep-86 | 13-Sep-86 | 2.75 | 1350 | 491 | 5.7 |
| 86-12 | S | Extr. | 14-Sep-86 | 18-Sep-86 | 3.25 | 2064 | 635 | 7.4 |
| 86-13 | N | Str. | 24-Sep-86 | 26-Sep-86 | 2.50 | 1104 | 442 | 5.1 |
| 86-14 | NW | Str. | 05-Oct-86 | 09-Oct-86 | 4.00 | 1720 | 430 | 5.0 |



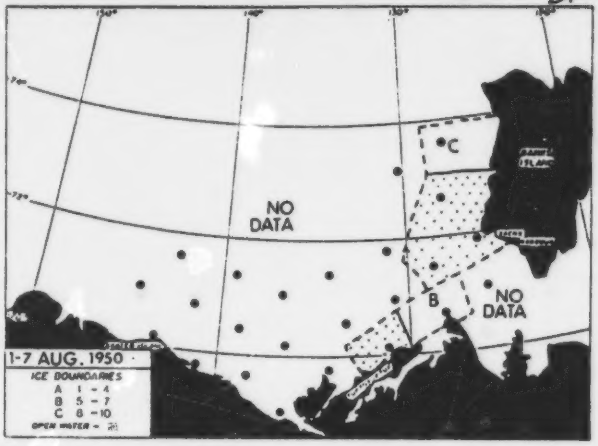
WIND EVENTS

| Event | Dir'n | Mag. | Start | Stop | Duration | Distance | Speed | Speed |
|---|---|---|---|---|---|---|---|---|
| | | | Time | | (d) | (km) | (km/d) | (m/s) |
| 87-1 | S | Extr. | 29-Jul-87 | 01-Aug-87 | 2.50 | 1822 | 729 | 8.4 |
| 87-2 | NW | Extr. | 01-Aug-87 | 06-Aug-87 | 4.75 | 3652 | 769 | 8.9 |
| 87-3 | NW | Str. | 07-Aug-87 | 14-Aug-87 | 7.00 | 3509 | 501 | 5.8 |
| 87-4 | NE | Mod. | 13-Aug-87 | 19-Aug-87 | 6.25 | 2256 | 361 | 4.2 |
| 87-5 | NE | Mod. | 20-Aug-87 | 25-Aug-87 | 4.50 | 978 | 217 | 2.5 |
| 87-6 | W | Mod. | 25-Aug-87 | 31-Aug-87 | 6.75 | 2819 | 418 | 4.8 |
| 87-7 | NW | Extr. | 31-Aug-87 | 04-Sep-87 | 4.00 | 3673 | 918 | 10.6 |
| 87-8 | SE | Str. | 06-Sep-87 | 09-Sep-87 | 2.75 | 1316 | 479 | 5.5 |
| 87-9 | SW | Mod. | 15-Sep-87 | 20-Sep-87 | 5.25 | 1607 | 306 | 3.5 |
| 87-10 | SE | Extr. | 21-Sep-87 | 29-Sep-87 | 7.50 | 5550 | 740 | 8.6 |
| 87-11 | SW | Extr. | 29-Sep-87 | 13-Oct-87 | 13.75 | 8047 | 585 | 6.8 |

# APPENDIX G

# MAPS OF SEA-ICE CONCENTRATIONS

2-350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BARTER ISLAND

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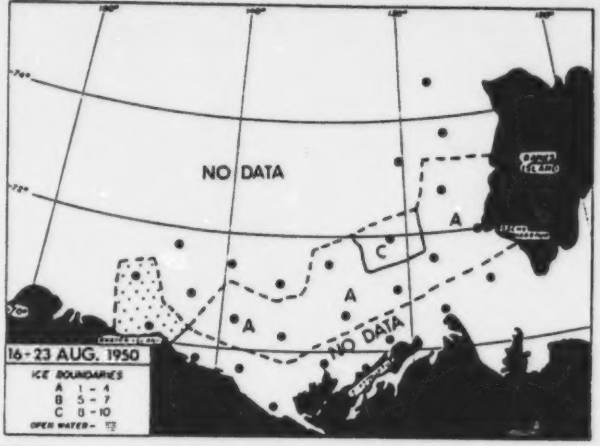
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER - ▨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C 8 - 10
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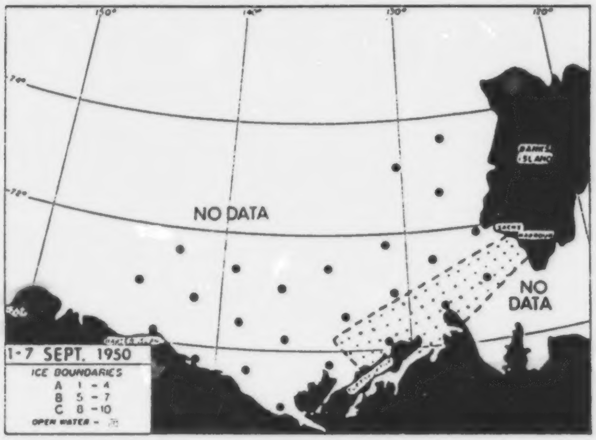
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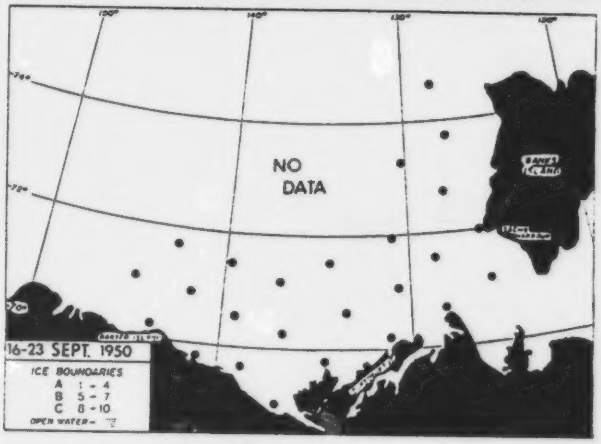
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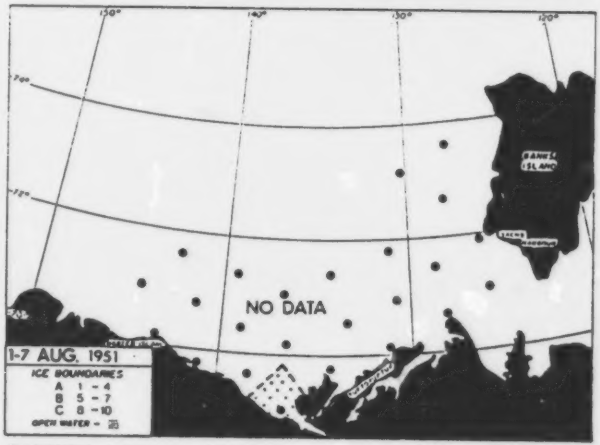
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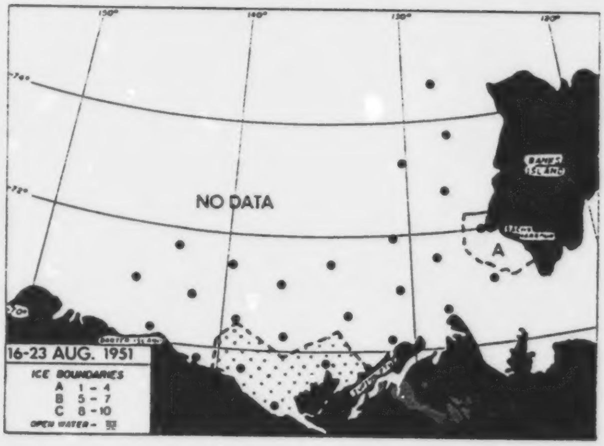
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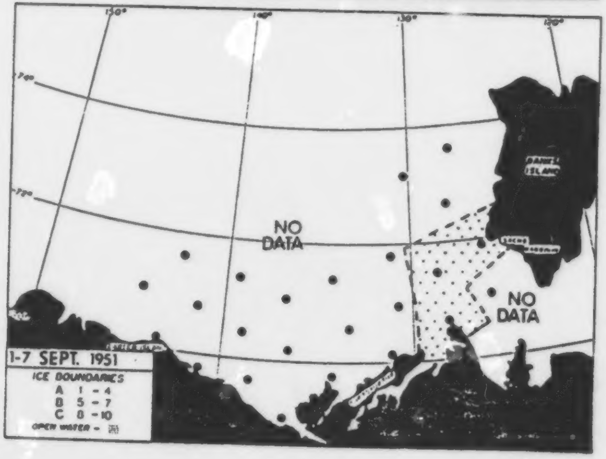
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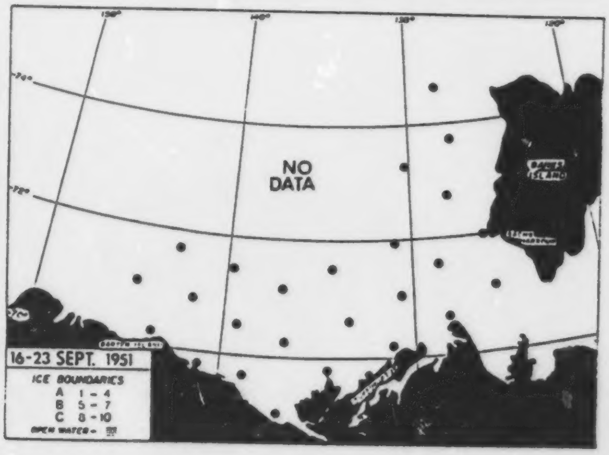
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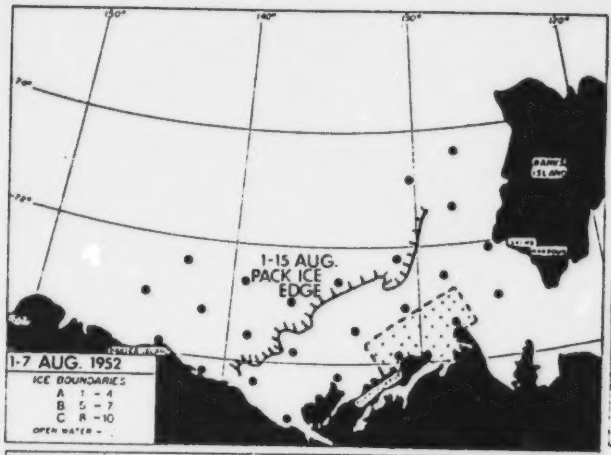
C 8 - 10
OPEN WATER - ▨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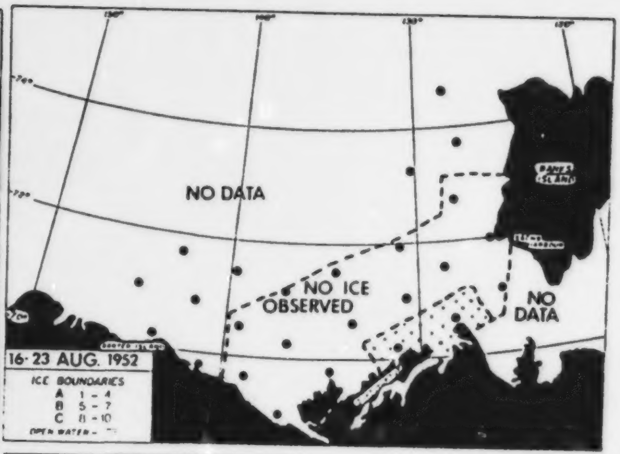
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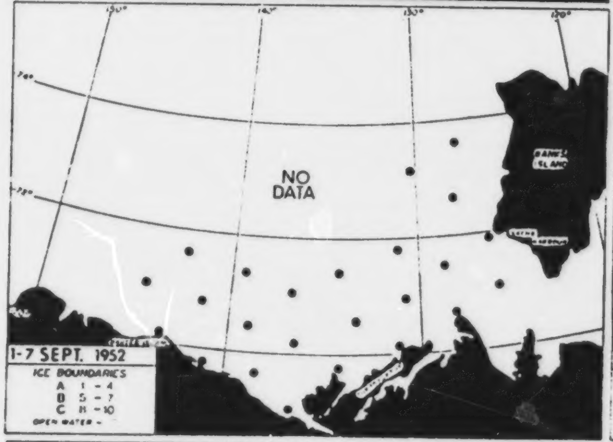
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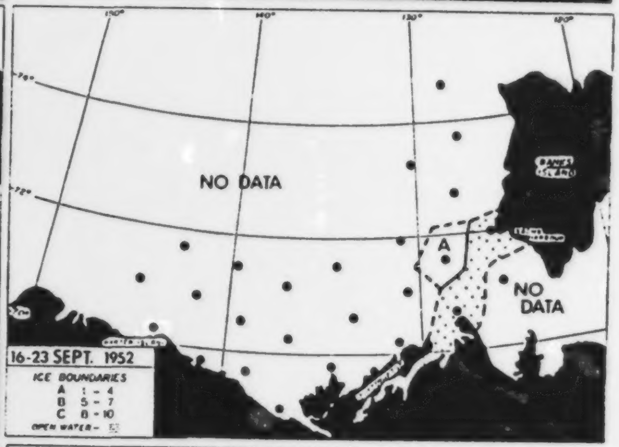
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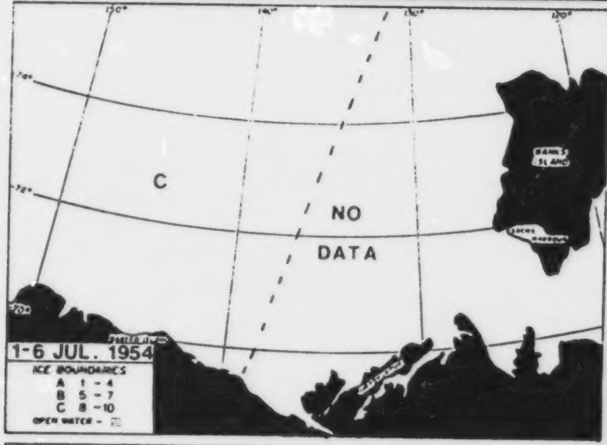
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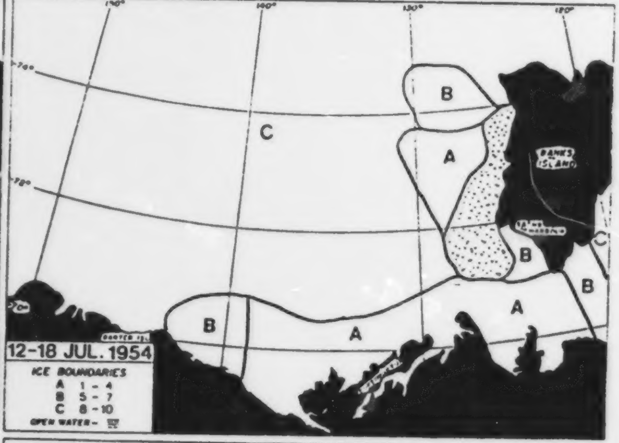
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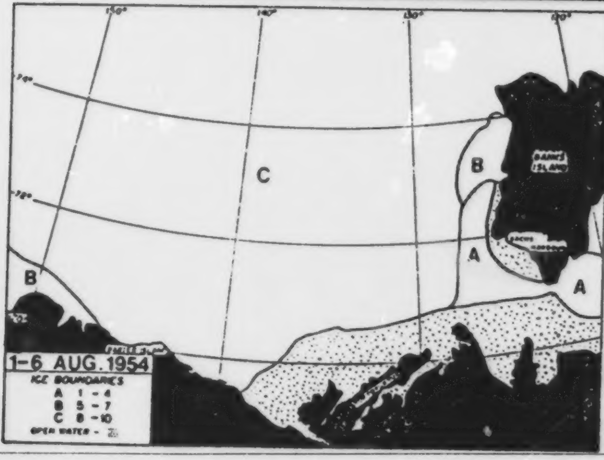
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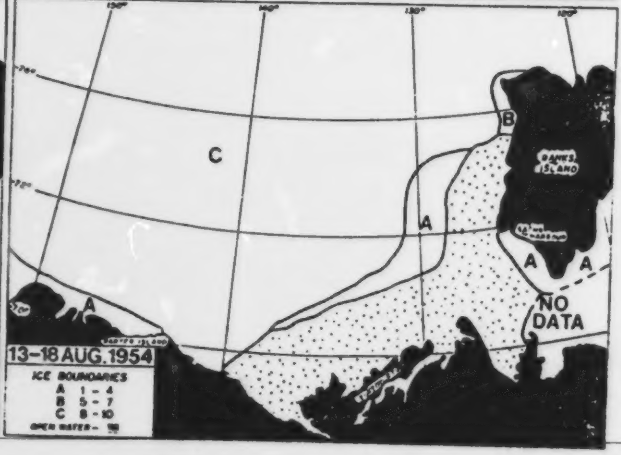
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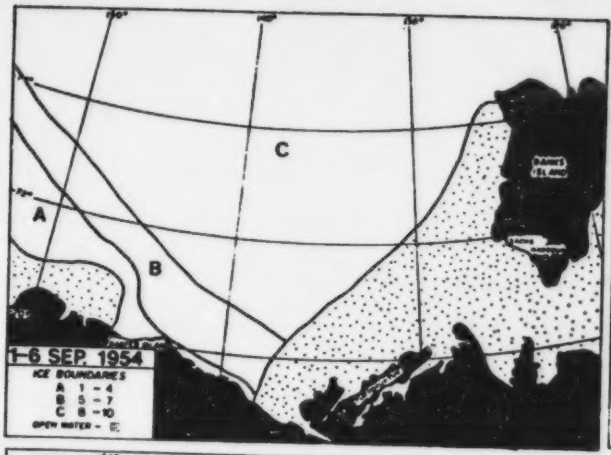
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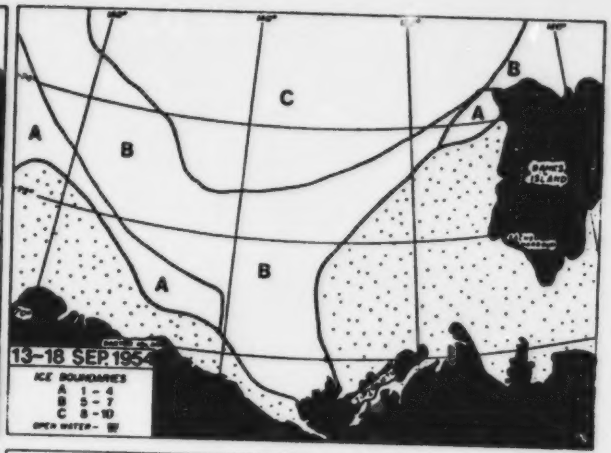
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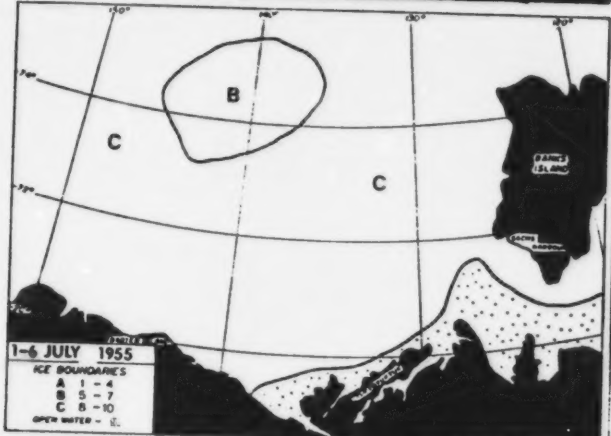
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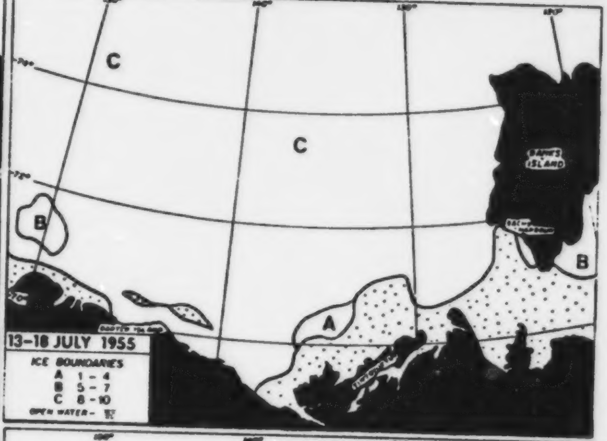
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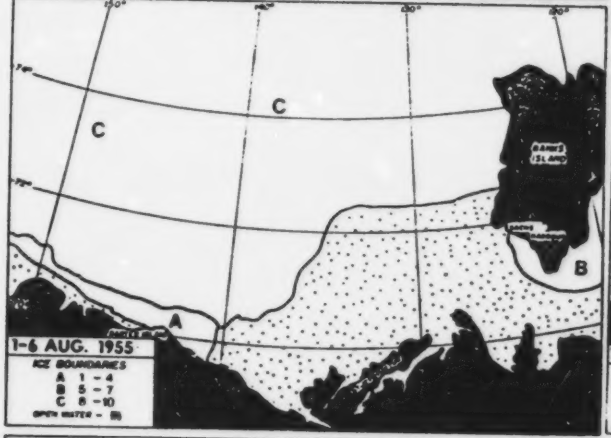
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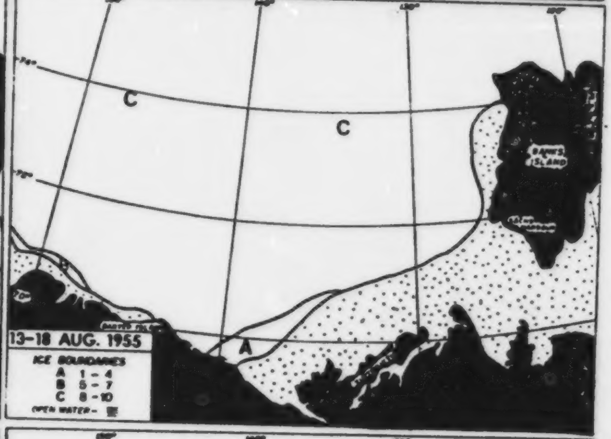
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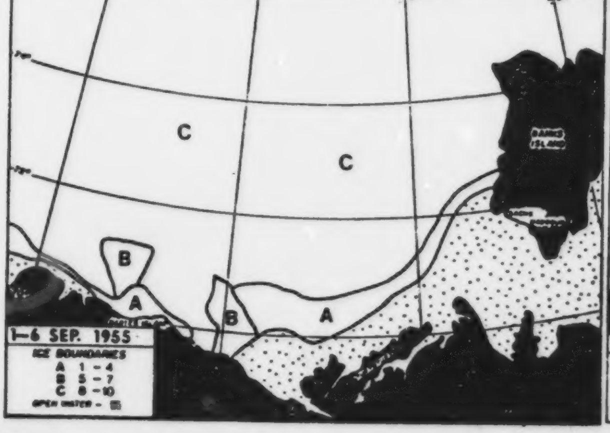
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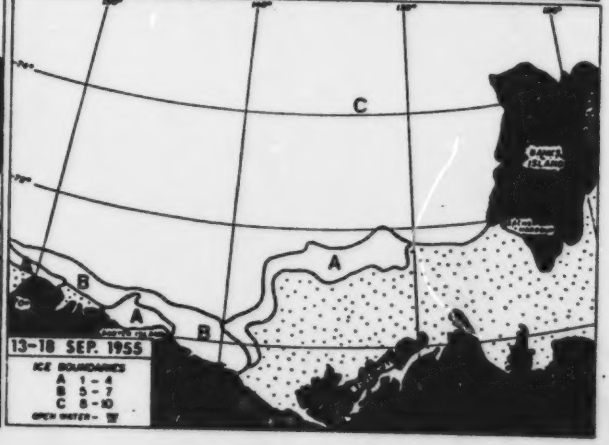
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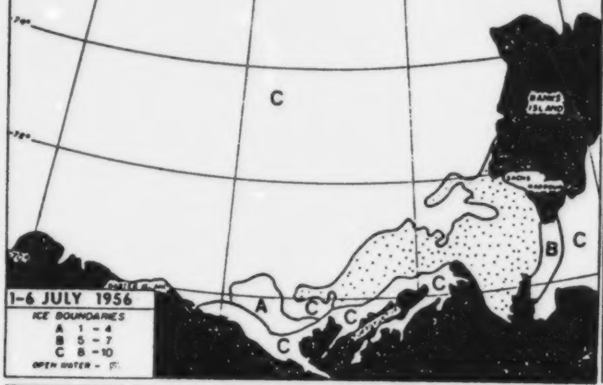
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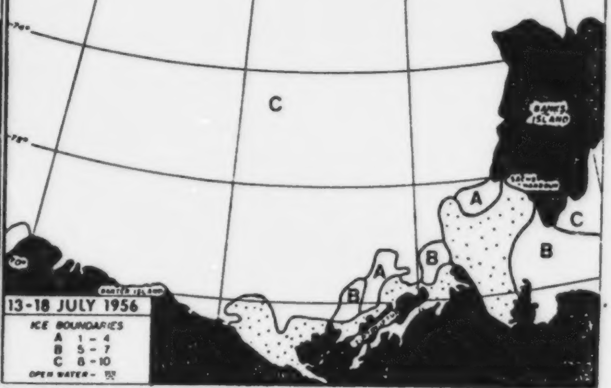
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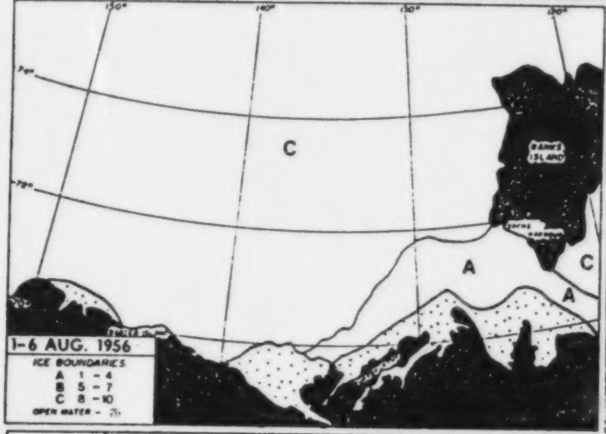
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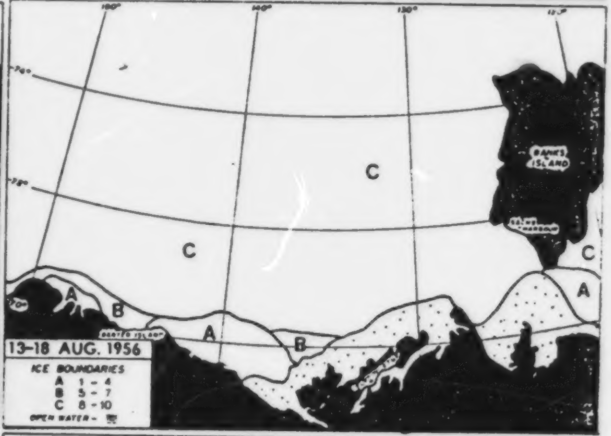
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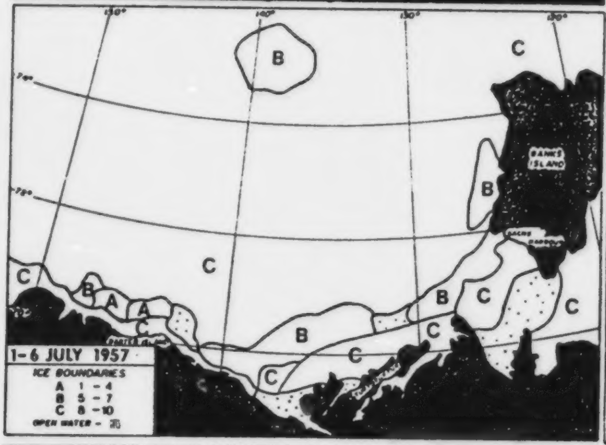
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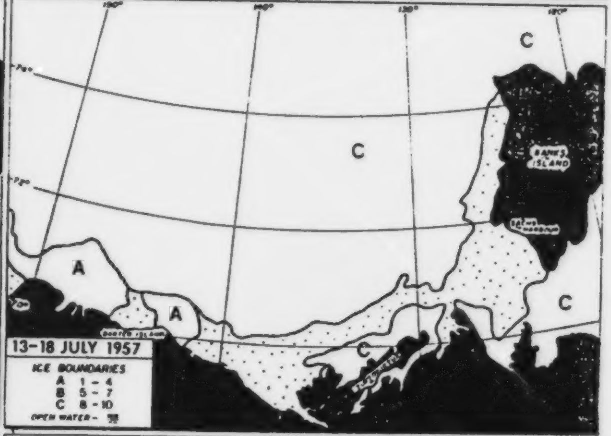
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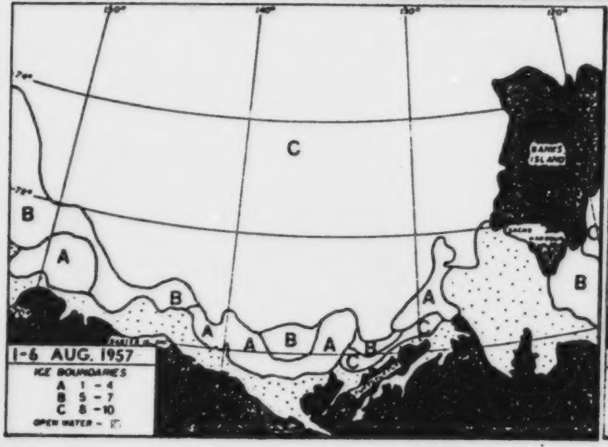
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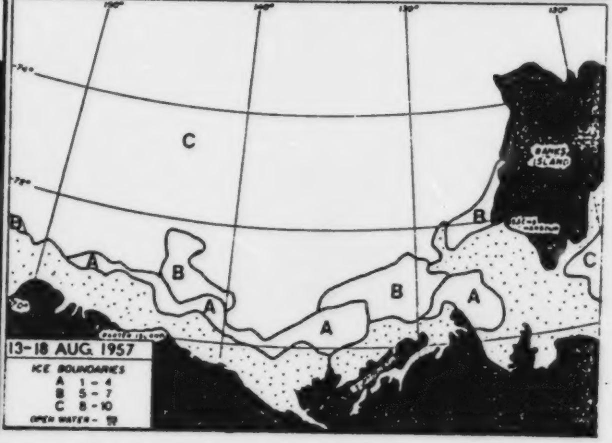
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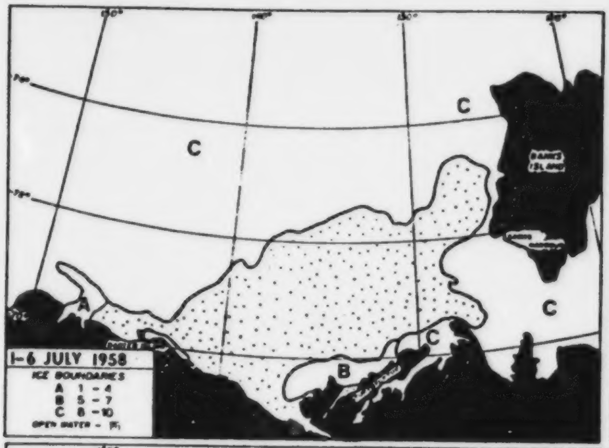
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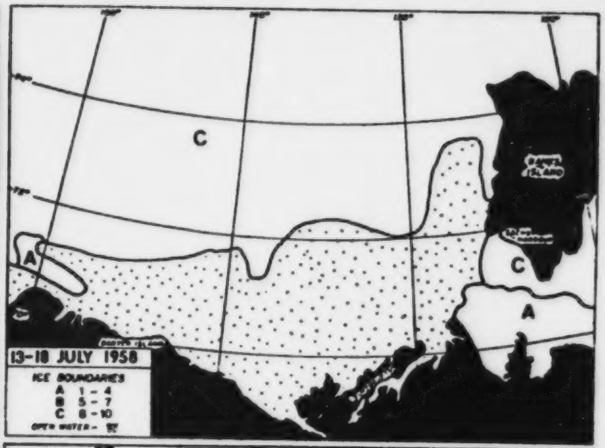
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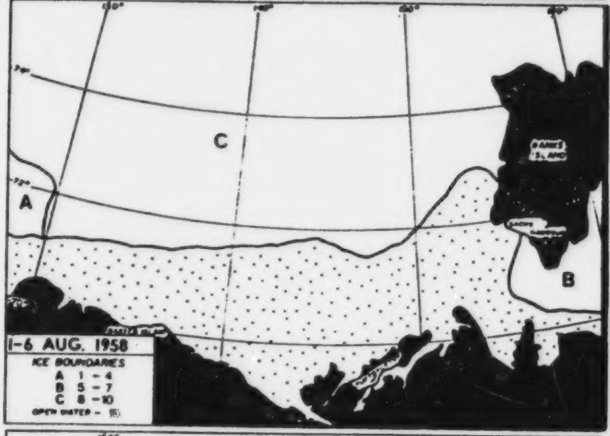
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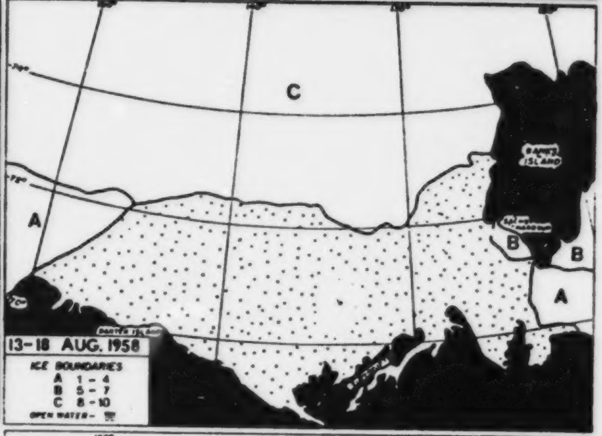
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ICE BOUNDARIES
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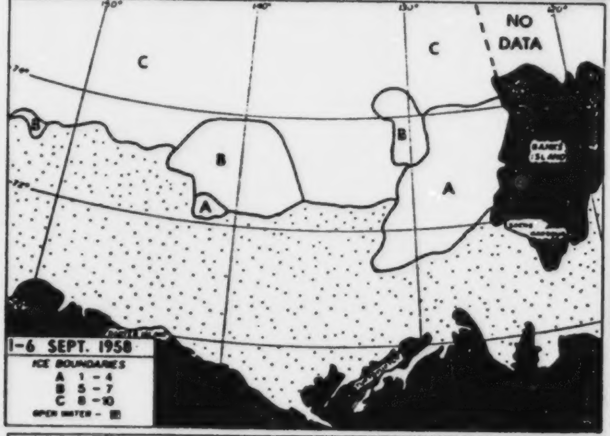
C 8 - 10
OPEN WATER -


1-6 SEPT. 1958
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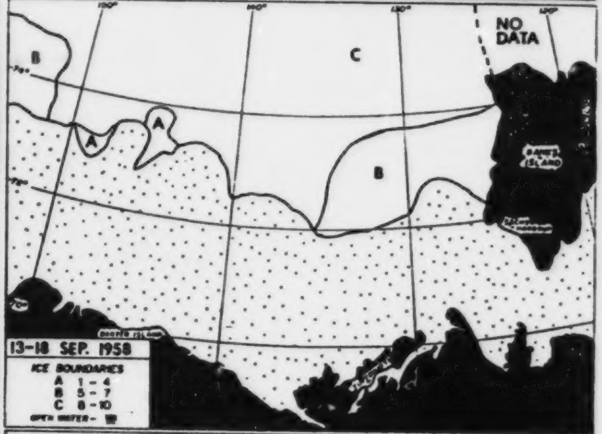
BANKS ISLAND
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -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ICE BOUNDARIES
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B 5 - 7
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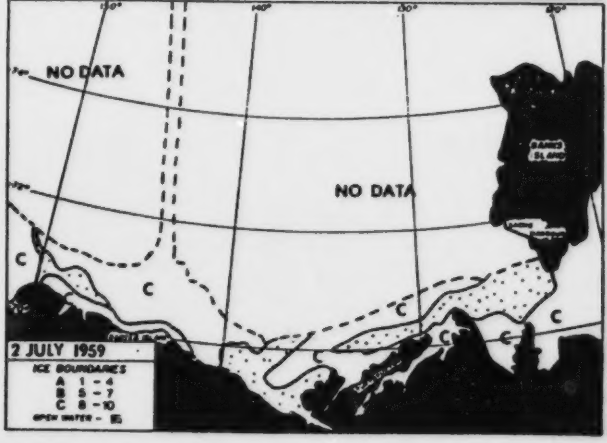
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ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
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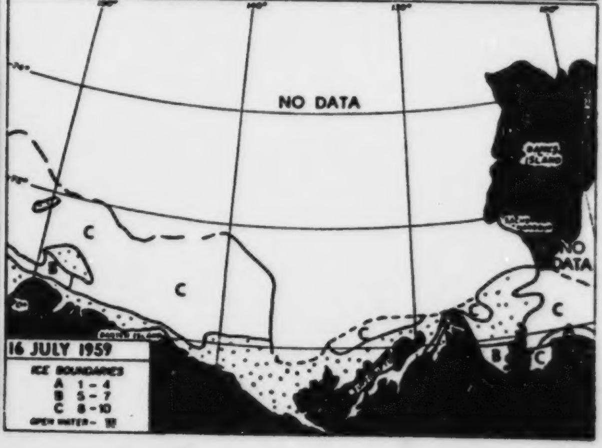
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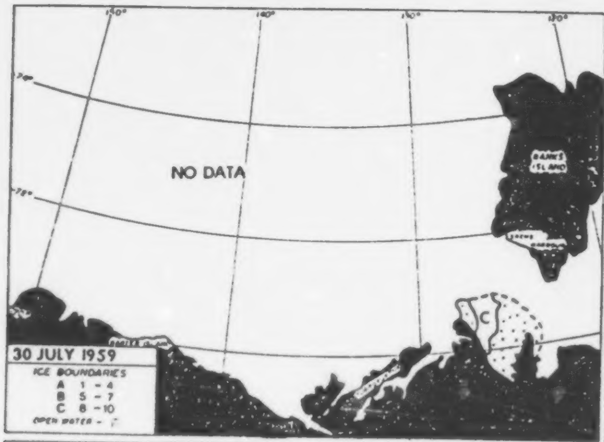
BANKS ISLAND
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -


30 JULY 1959
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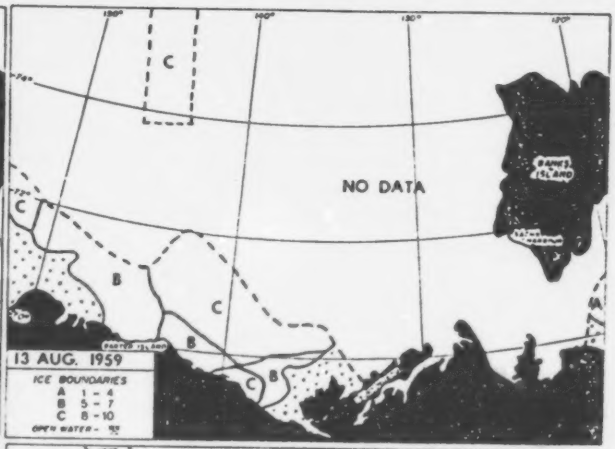
SACHS HARBOUR
BARTER ISLAND
C
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -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BARTER ISLAND
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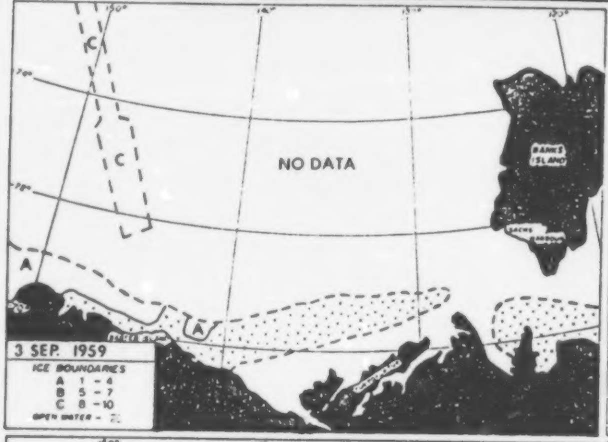
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -


3 SEP. 1959
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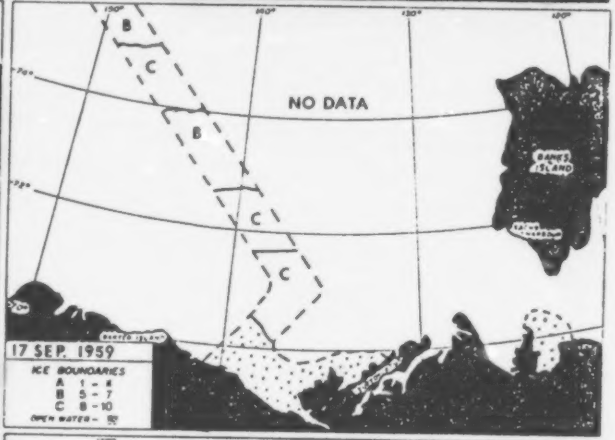
BARTER ISLAND
C
A
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -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BARTER ISLAND
B
C
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
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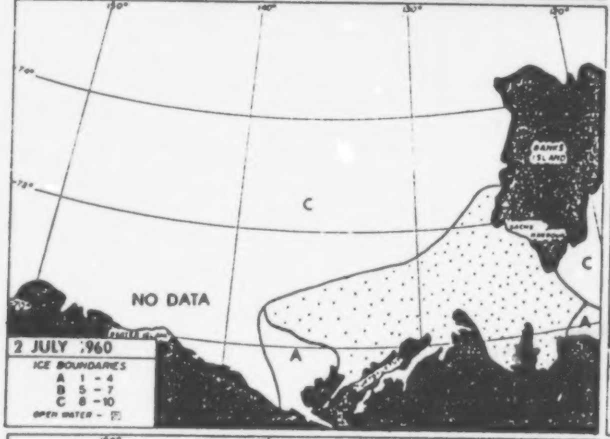
2 JULY 1960
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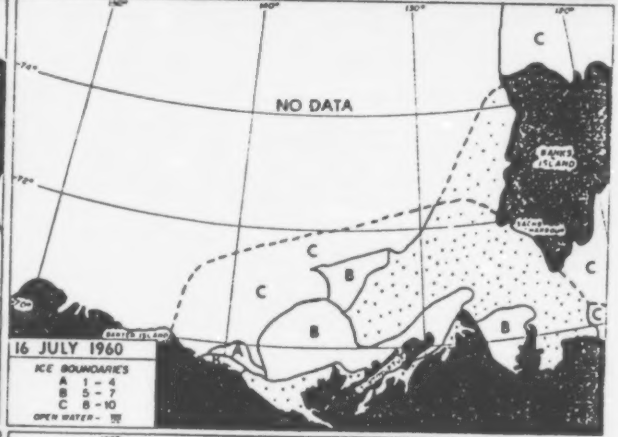
SACHS HARBOUR
BARTER ISLAND
C
A
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -


16 JULY 1960
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SACHS HARBOUR
BARTER ISLAND
C
B
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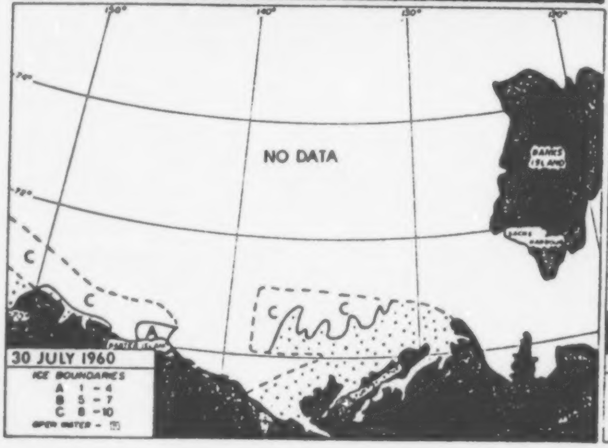
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -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BARTER ISLAND
C
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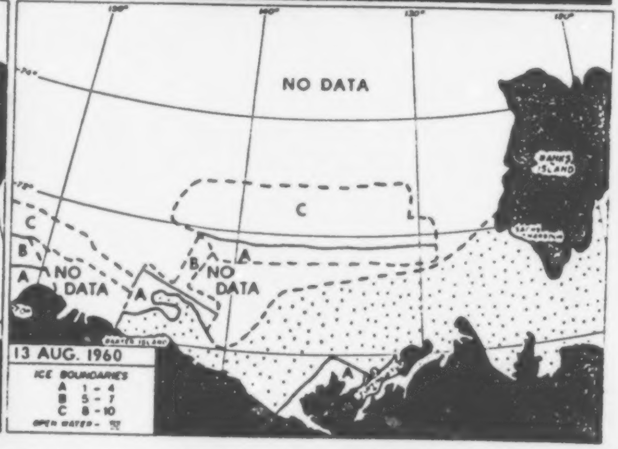
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -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SACHS HARBOUR
BARTER ISLAND
C
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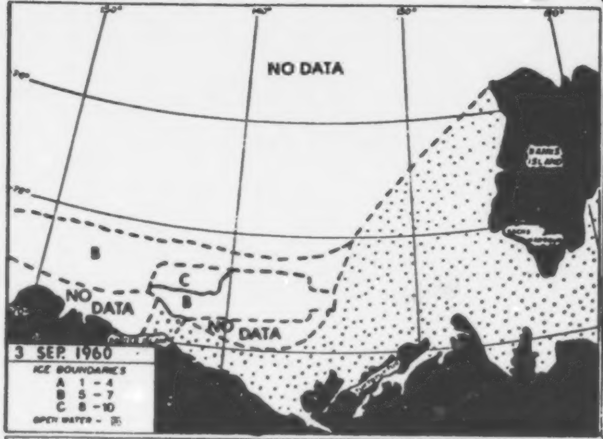
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -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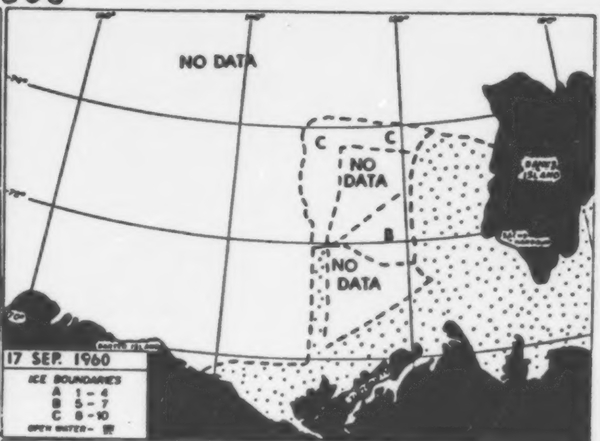
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -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ICE BOUNDARIES
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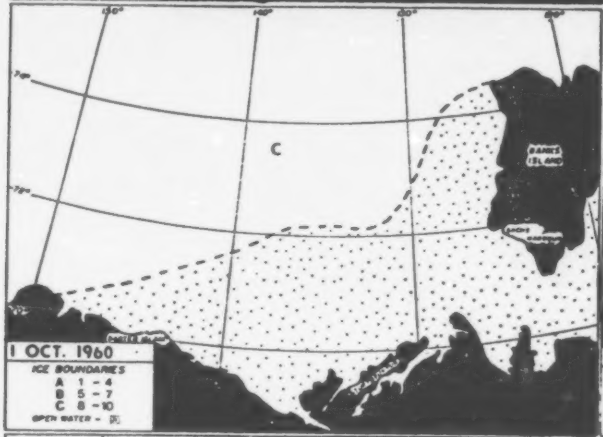
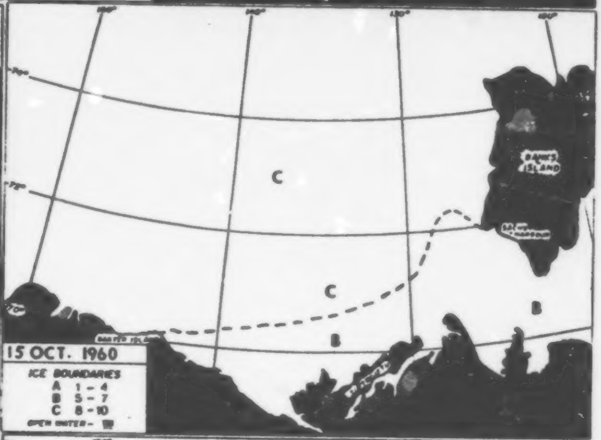
B 5 - 7
C 8 - 10
OPEN WATER -


C
BANKS ISLAND
1 OCT. 1960
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -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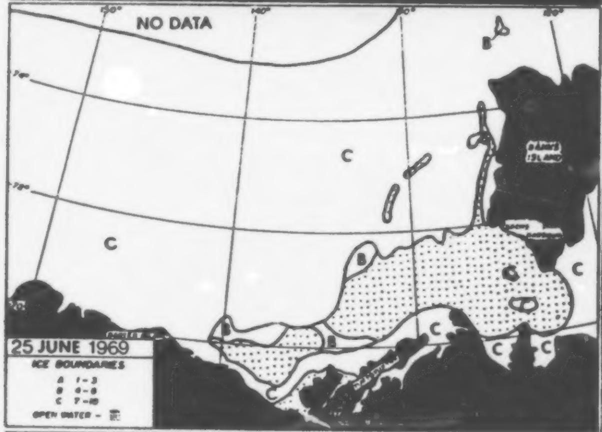
15 OCT. 1960
ICE BOUNDARIES
A 1 - 4
B 5 - 7
C 8 - 10
OPEN WATER -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BANKS ISLAND
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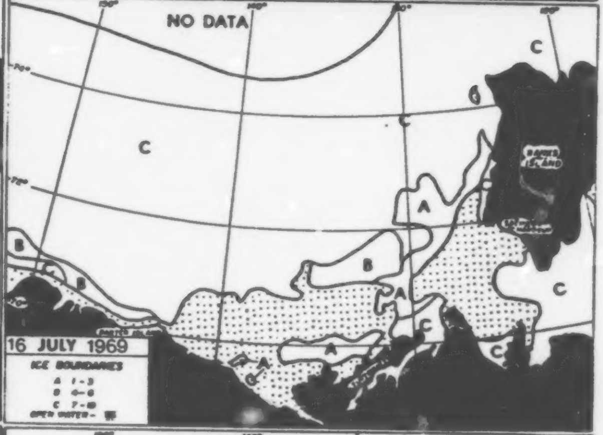
25 JUNE 1969
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
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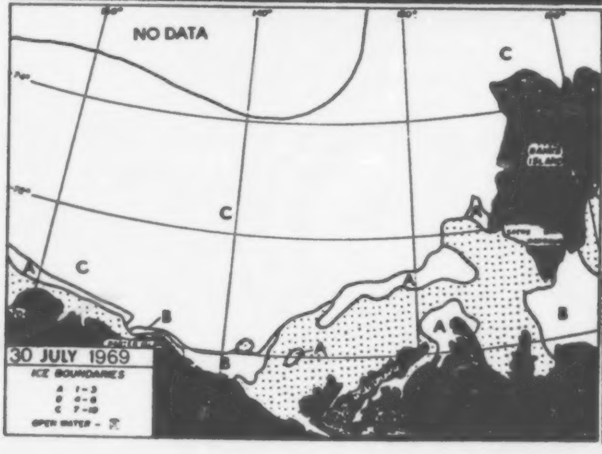
16 JULY 1969
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
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ICE BOUNDARIES
A 1-3
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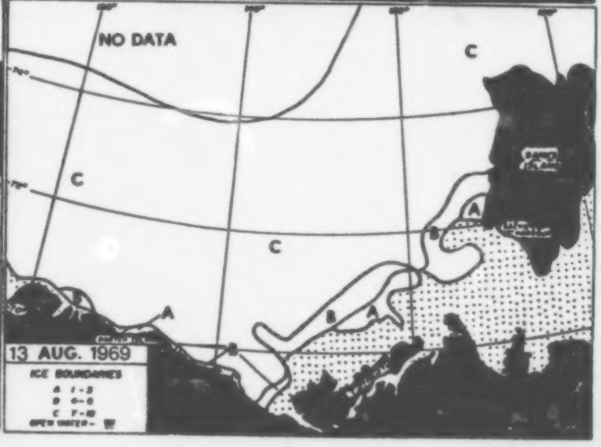
C 7-10
OPEN WATER -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BANKS ISLAND
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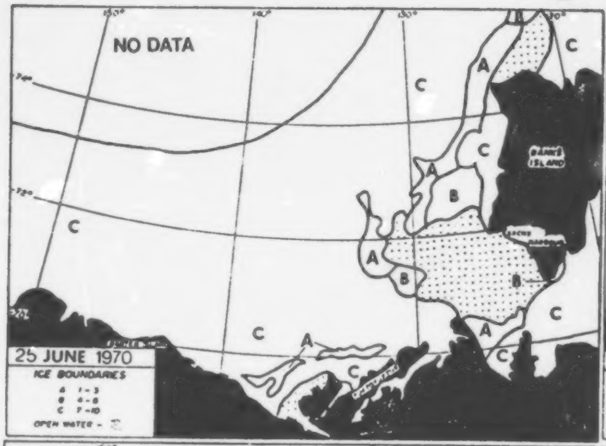
13 AUG. 1969
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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120°
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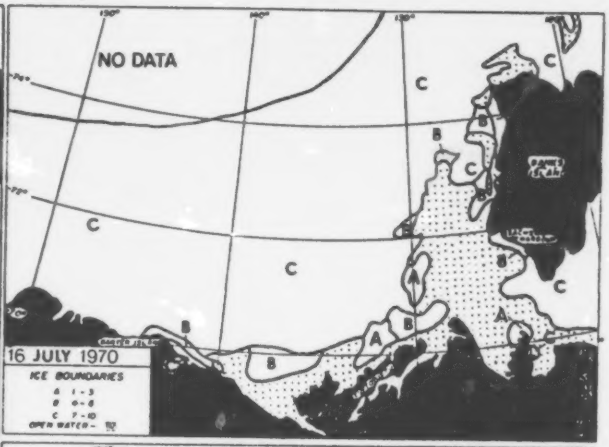
72°
BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
A
B
C

25 JUNE 1970

ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER - ▨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BANKS ISLAND
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BARTER ISLAND
A
B
C

16 JULY 1970

ICE BOUNDARIES
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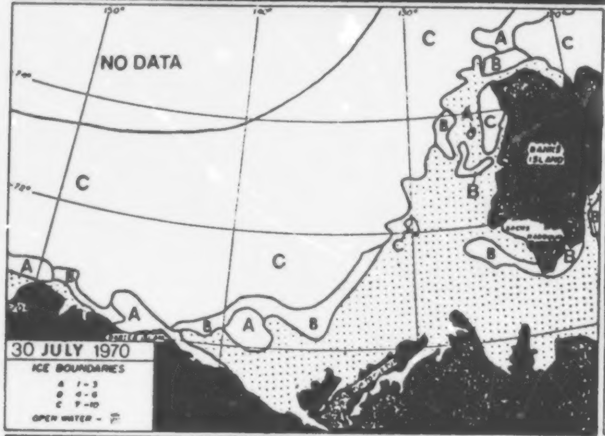
B 4-6
C 7-10
OPEN WATER - ▨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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
A
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C

30 JULY 1970

ICE BOUNDARIES
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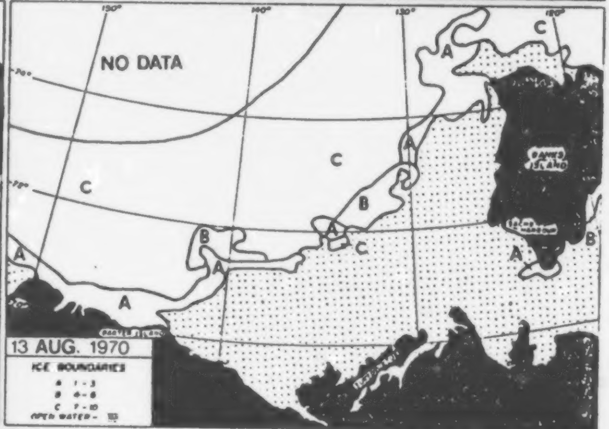
B 4-6
C 7-10
OPEN WATER - ▨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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
A
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C

13 AUG. 1970

ICE BOUNDARIES
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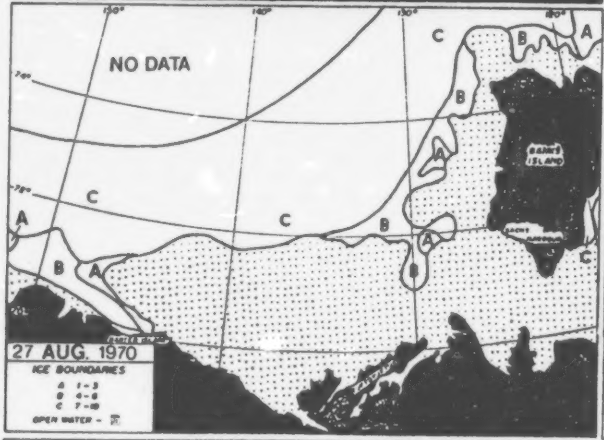
B 4-6
C 7-10
OPEN WATER - ▨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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
A
B
C

27 AUG. 1970

ICE BOUNDARIES
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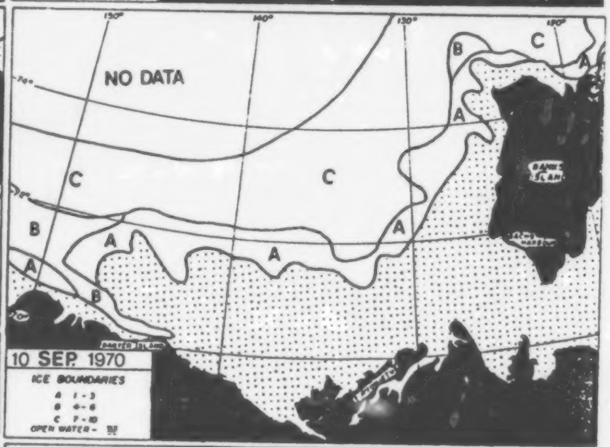
B 4-6
C 7-10
OPEN WATER - ▨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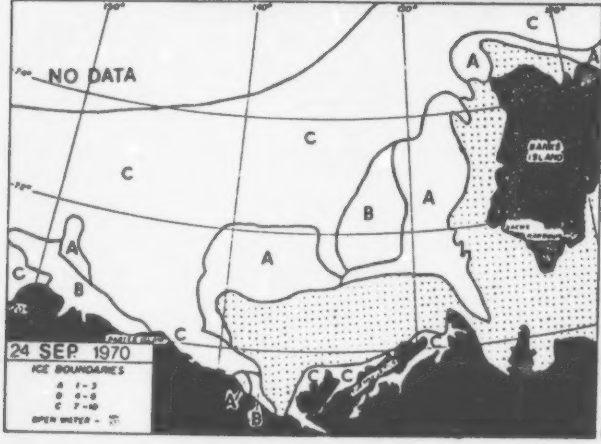
BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
A
B
C

10 SEP. 1970

ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER - ▨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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
A
B
C

24 SEP. 1970

ICE BOUNDARIES
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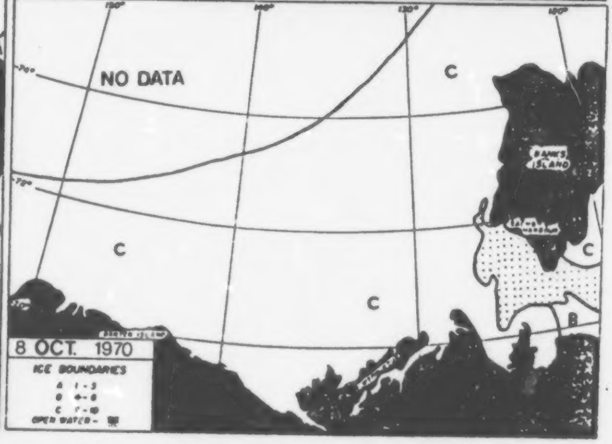
B 4-6
C 7-10
OPEN WATER - ▨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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
B
C

8 OCT. 1970

ICE BOUNDARIES
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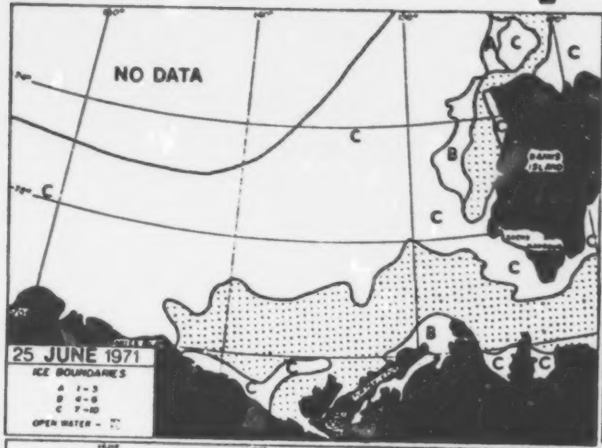
B 4-6
C 7-10
OPEN WATER - ▨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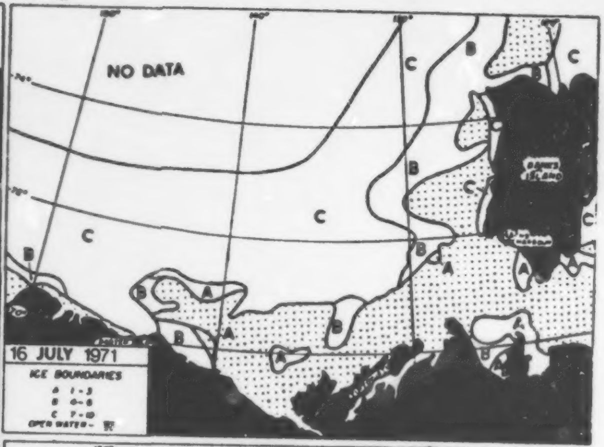
SACHS HARBOUR
25 JUNE 1971
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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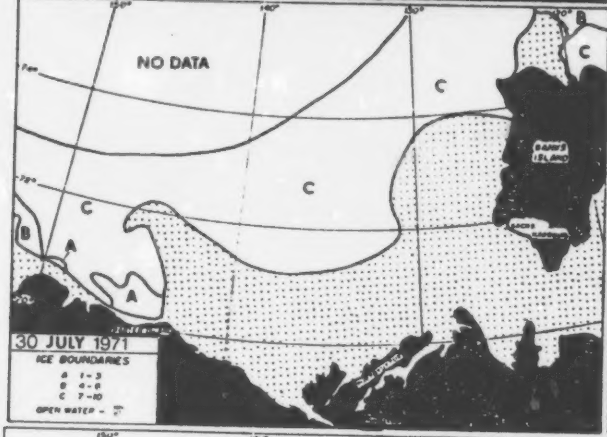
SACHS HARBOUR
16 JULY 1971
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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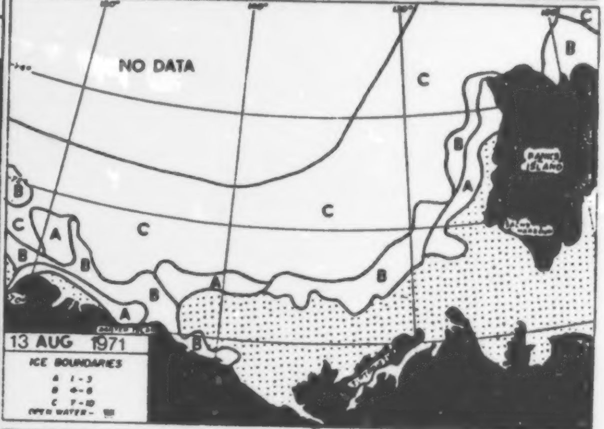
SACHS HARBOUR
30 JULY 1971
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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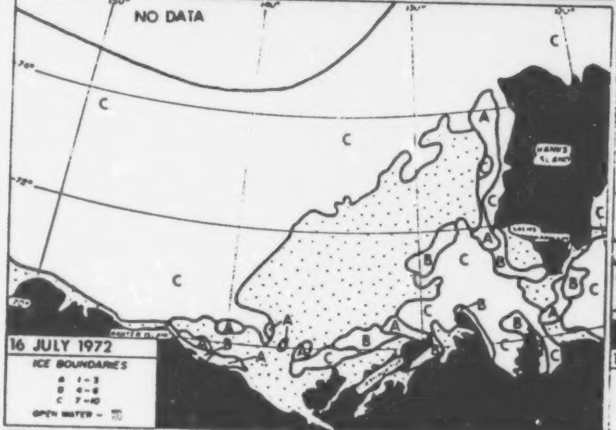
SACHS HARBOUR
13 AUG 1971
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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ICE BOUNDARIES
A 1-3
B 4-6
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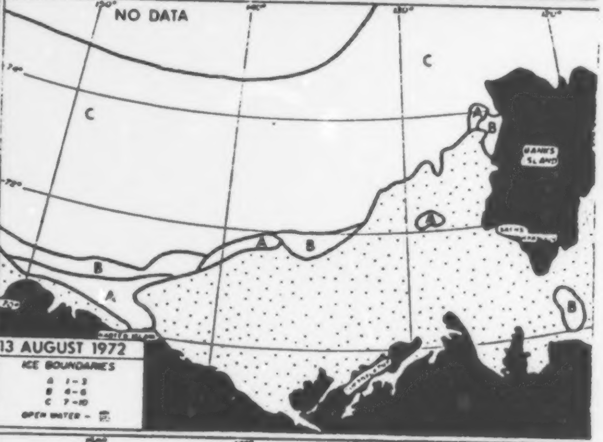
OPEN WATER -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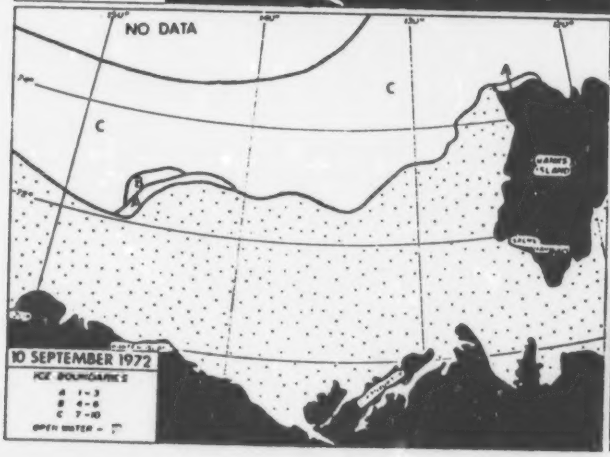
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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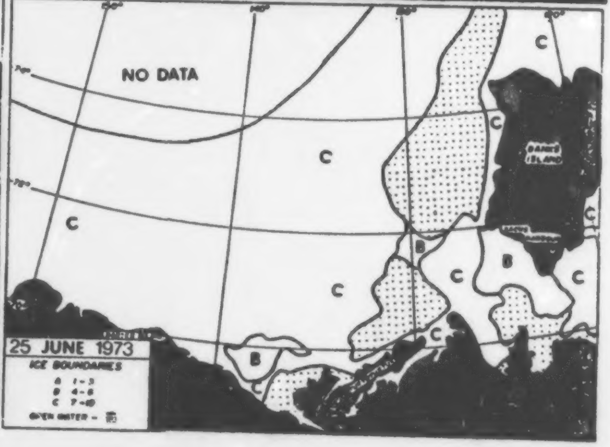
SACHS HARBOUR
10 SEPTEMBER 1972
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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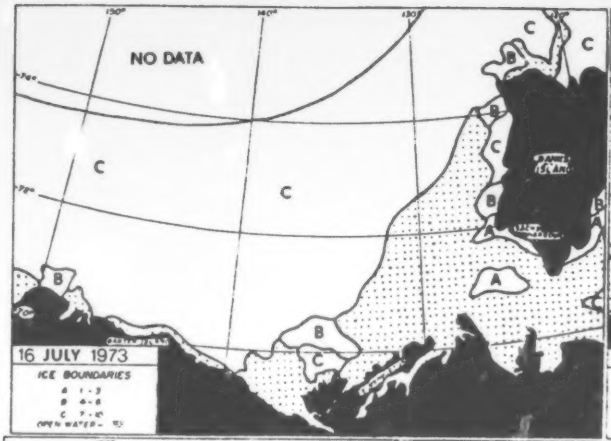
SACHS HARBOUR
25 JUNE 1973
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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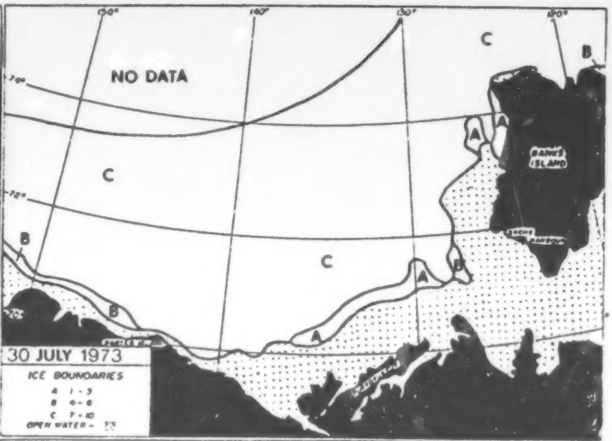
BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
16 JULY 1973
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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SACHS HARBOUR
BARTER ISLAND
30 JULY 1973
ICE BOUNDARIES
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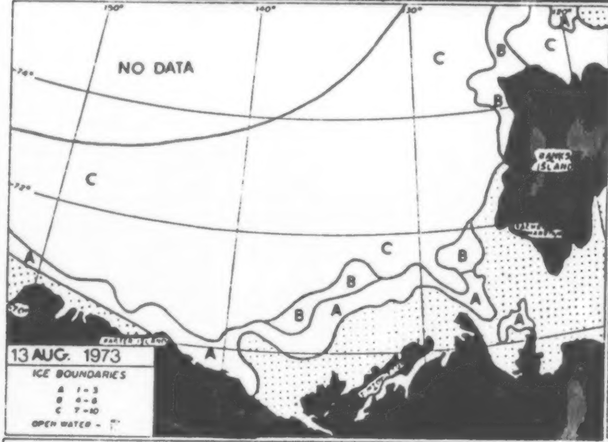
B 4-6
C 7-10
OPEN WATER -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72°
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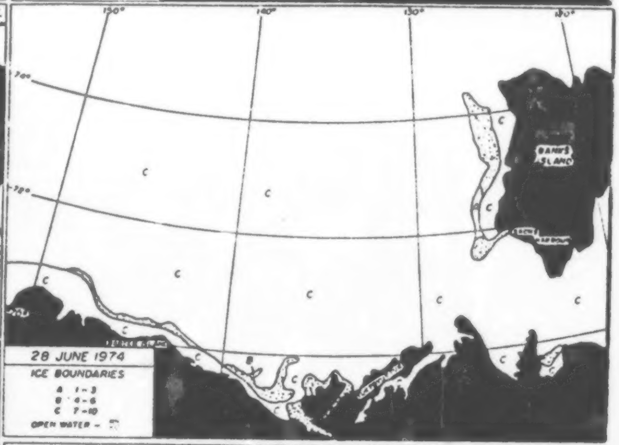
BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
13 AUG. 1973
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
28 JUNE 1974
ICE BOUNDARIES
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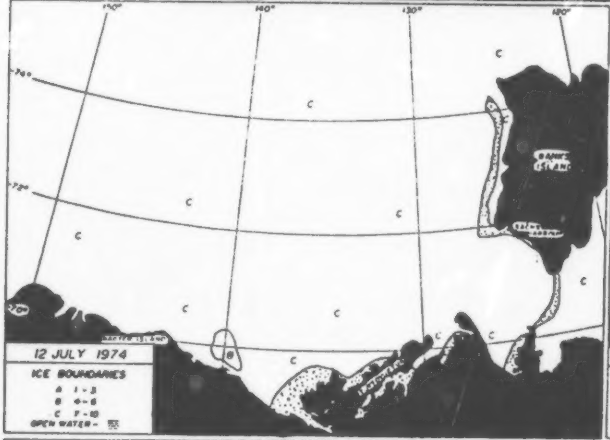
B 4-6
C 7-10
OPEN WATER -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72°
C
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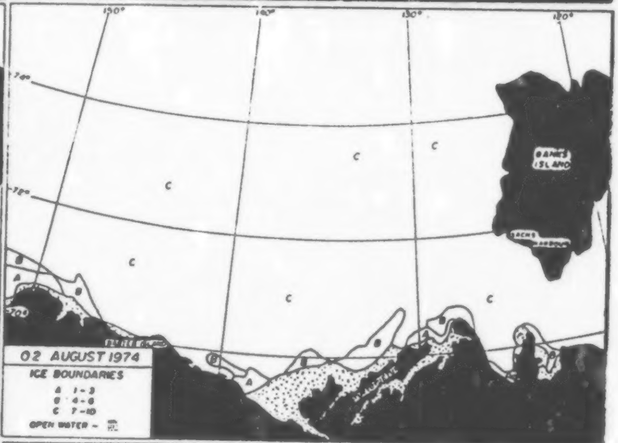
BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
12 JULY 1974
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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70°
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C
B
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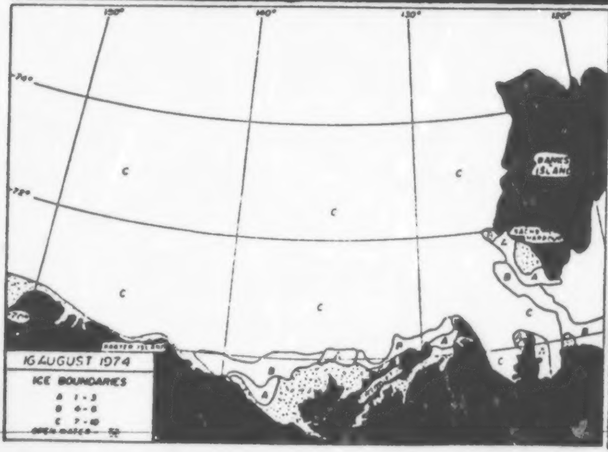
BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
02 AUGUST 1974
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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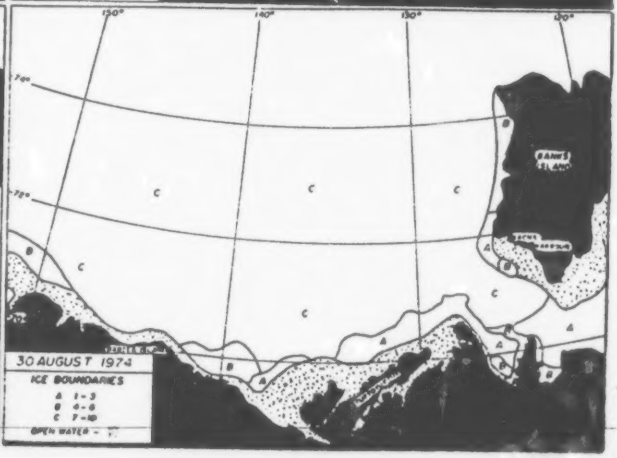
BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
16 AUGUST 1974
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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C
B
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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
30 AUGUST 1974
ICE BOUNDARIES
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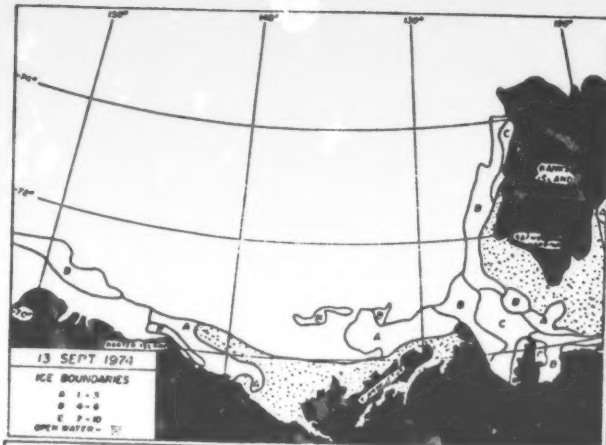
B 4-6
C 7-10
OPEN WATER -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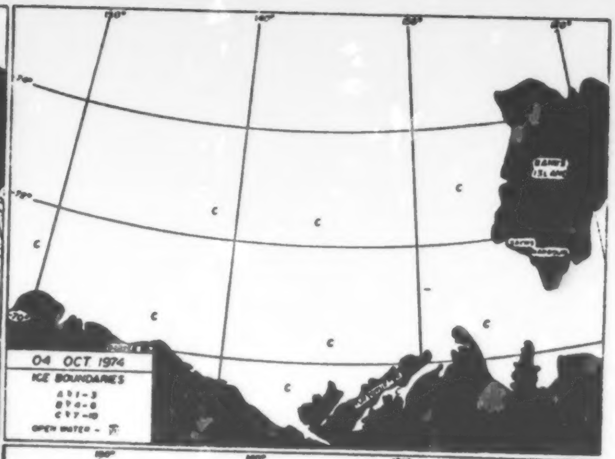
BANKS ISLAND
SACHS HARBOUR
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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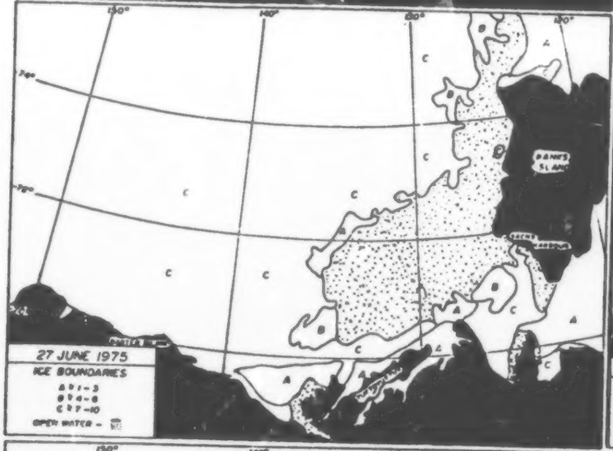
BANKS ISLAND
SACHS HARBOUR
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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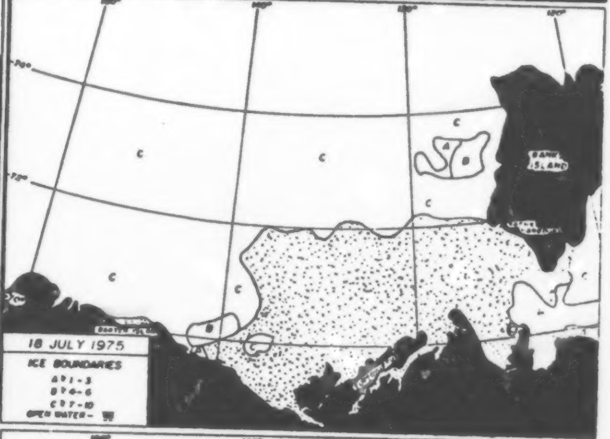
BANKS ISLAND
SACHS HARBOUR
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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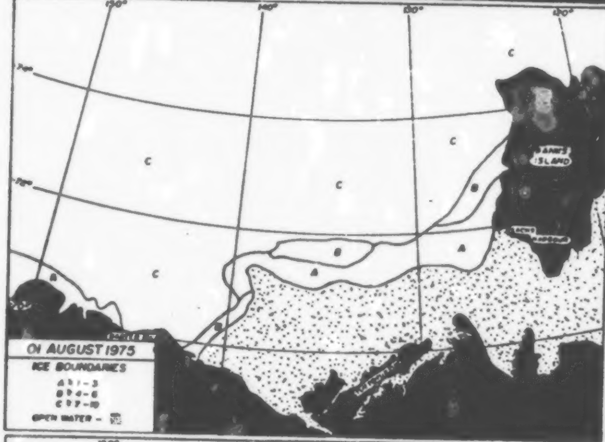
BANKS ISLAND
SACHS HARBOUR
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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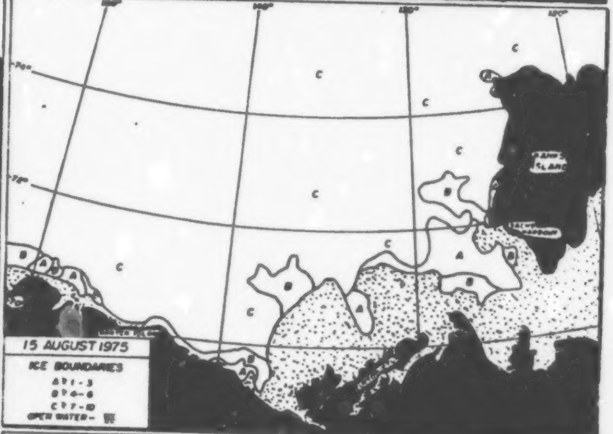
BANKS ISLAND
SACHS HARBOUR
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
SACHS HARBOUR
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
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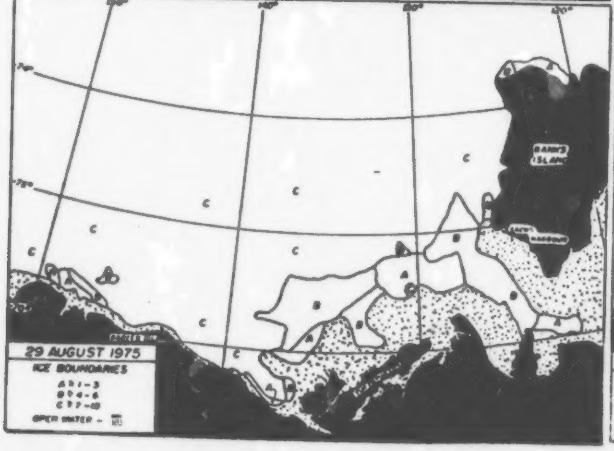
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BANKS ISLAND
SACHS HARBOUR
ICE BOUNDARIES
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B 4-6
C 7-10
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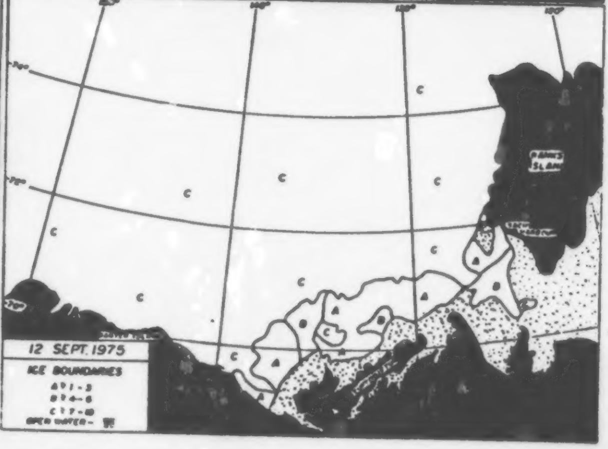
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SACHS HARBOUR
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
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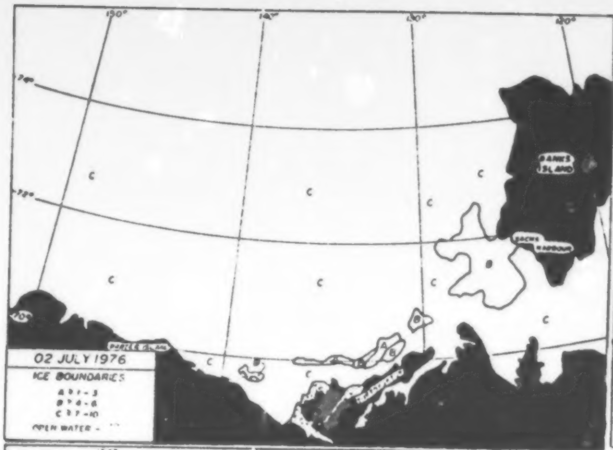
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SACHS HARBOUR
BARTER ISLAND
02 JULY 1976
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
A
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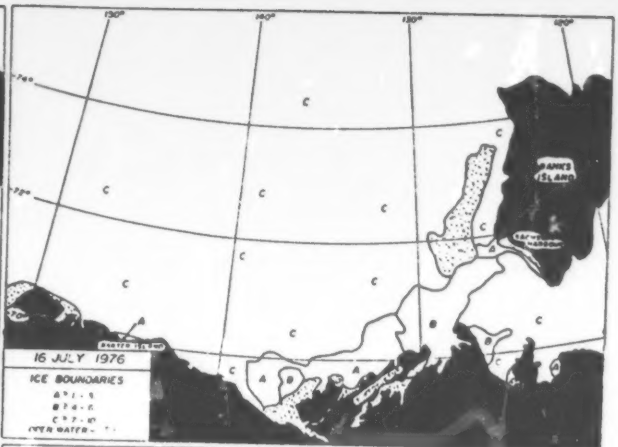
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ICE BOUNDARIES
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B 4-6
C 7-10
OPEN WATER -
A
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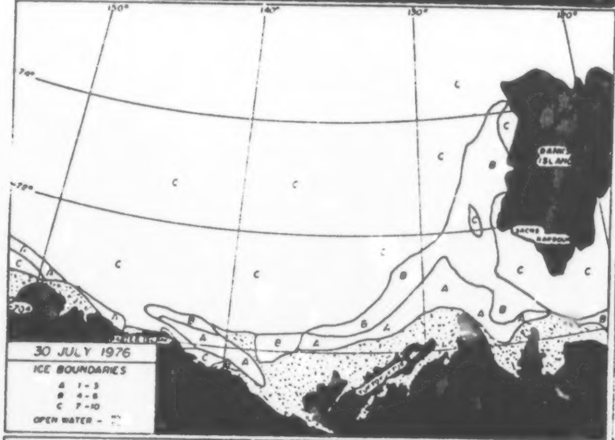
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BANKS ISLAND
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ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
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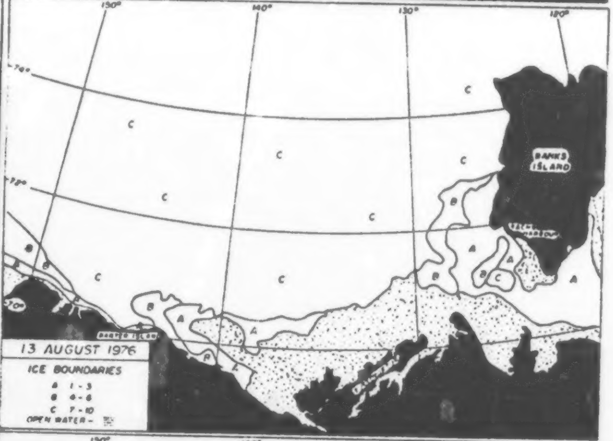
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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
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ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
A
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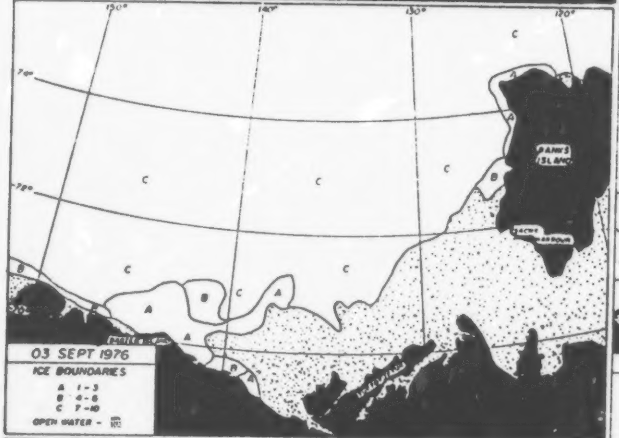
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BARTER ISLAND
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ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
A
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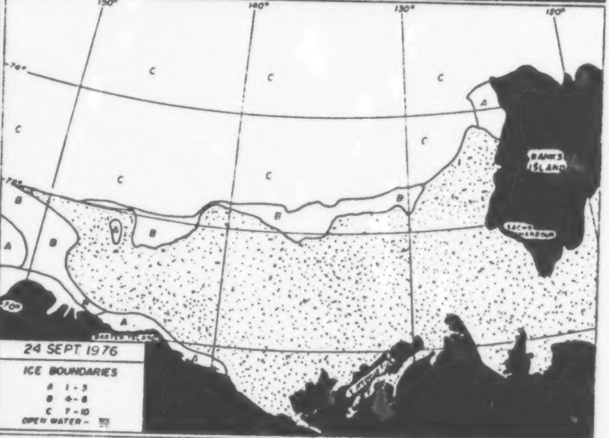
C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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
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ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
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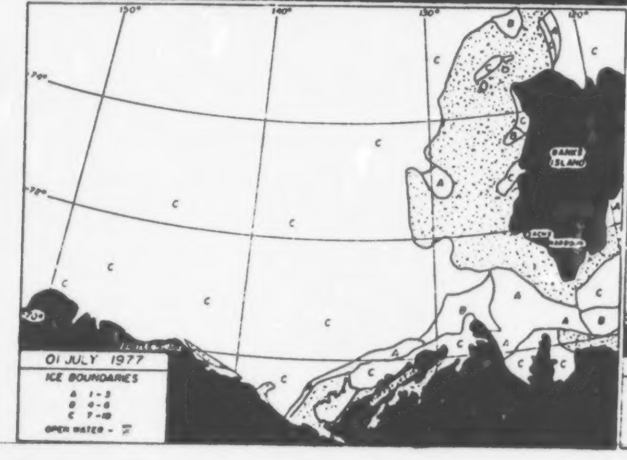
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BANKS ISLAND
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ICE BOUNDARIES
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B 4-6
C 7-10
OPEN WATER -
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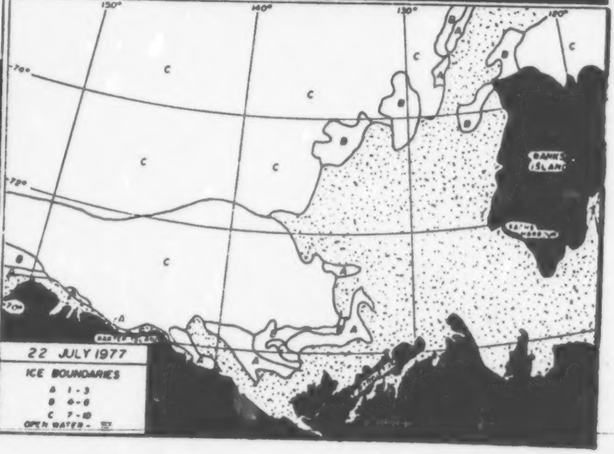
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B 4-6
C 7-10
OPEN WATER -
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B
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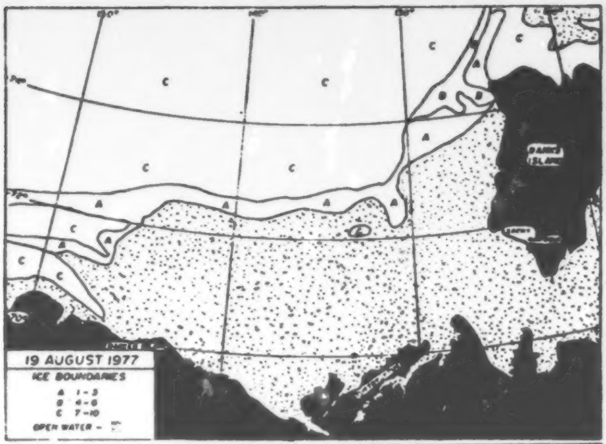
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BANKS ISLAND
SACHS HARBOUR
BARTER ISL.
A
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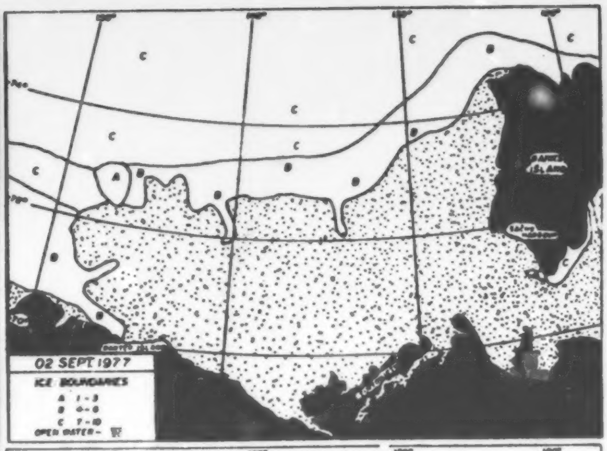
C
19 AUGUST 1977
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
A
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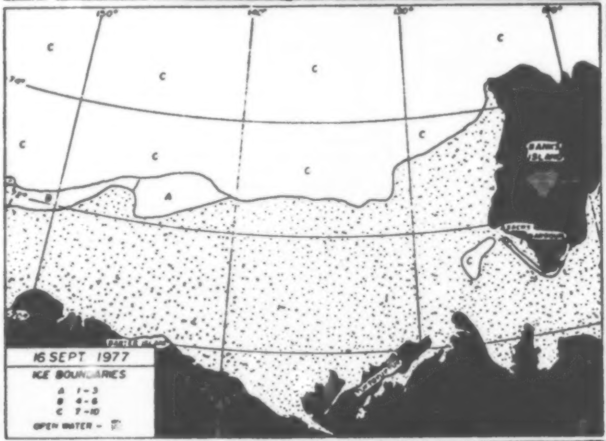
02 SEPT 1977
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
A
C
16 SEPT 1977
ICE BOUNDARIES
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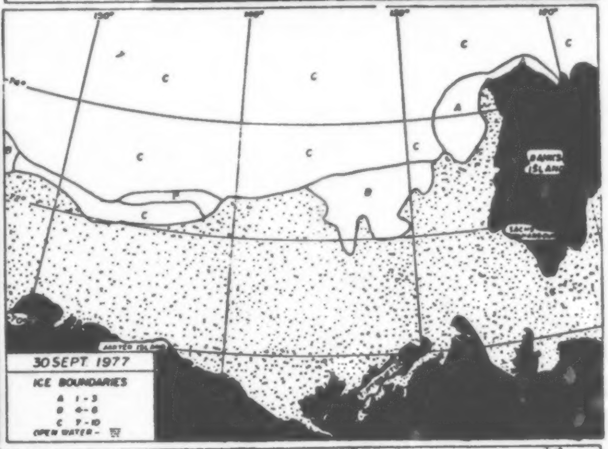
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
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ICE BOUNDARIES
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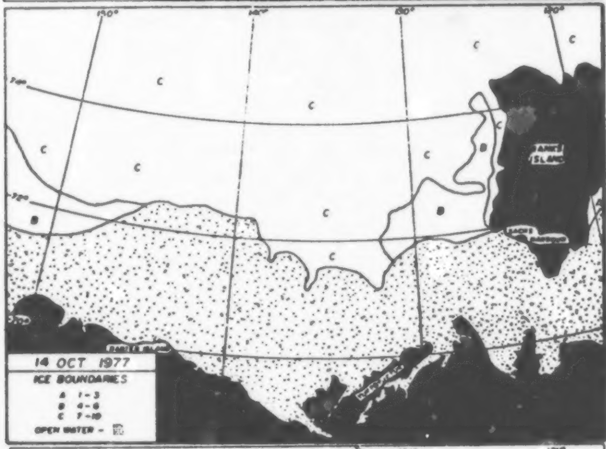
C 7-10
OPEN WATER -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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
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14 OCT 1977
ICE BOUNDARIES
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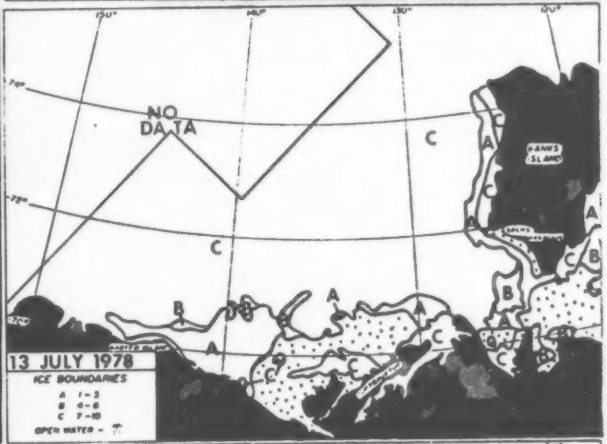
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
SACHS HARBOUR
BARTER ISLAND
A
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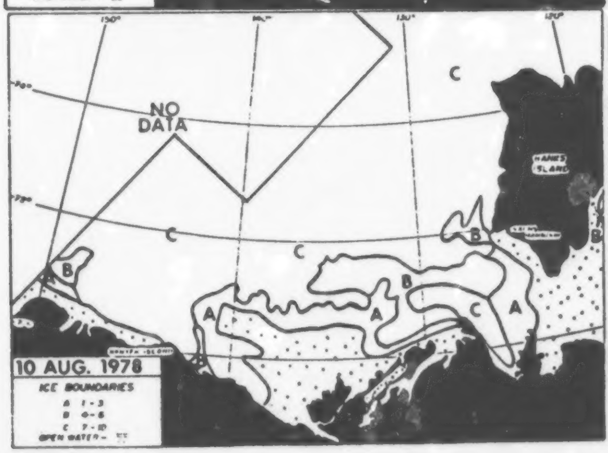
13 JULY 1978
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
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BARTER ISLAND
A
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ICE BOUNDARIES
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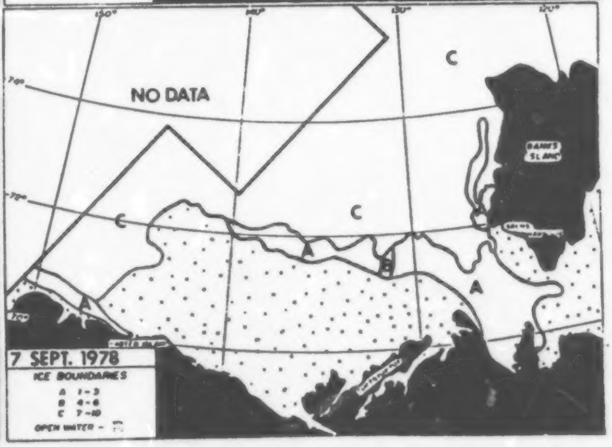
OPEN WATER -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BARTER ISLAND
A
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C
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ICE BOUNDARIES
A 1-3
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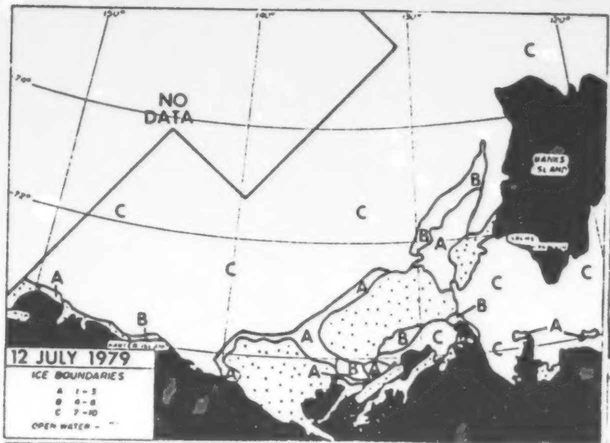
C 7-10
OPEN WATER -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BANKS ISLAND
SACHS HARBOUR
HERSCHEL ISLAND
A
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C
12 JULY 1979
ICE BOUNDARIES
A 1-3
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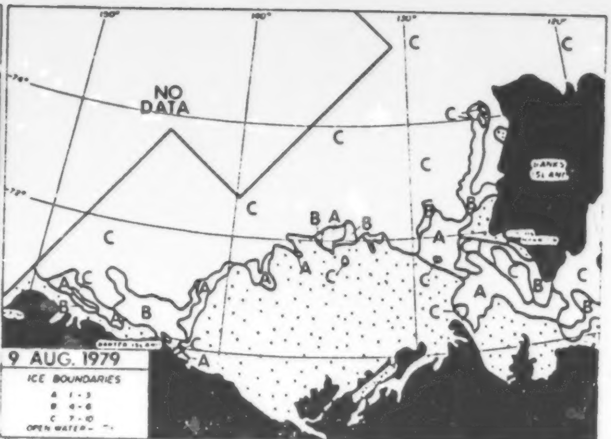
C 7-10
OPEN WATER -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A
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9 AUG. 1979
ICE BOUNDARIES
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C 7-10
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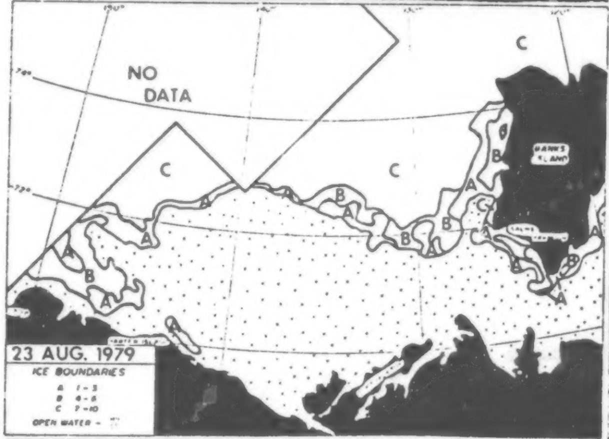
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ICE BOUNDARIES
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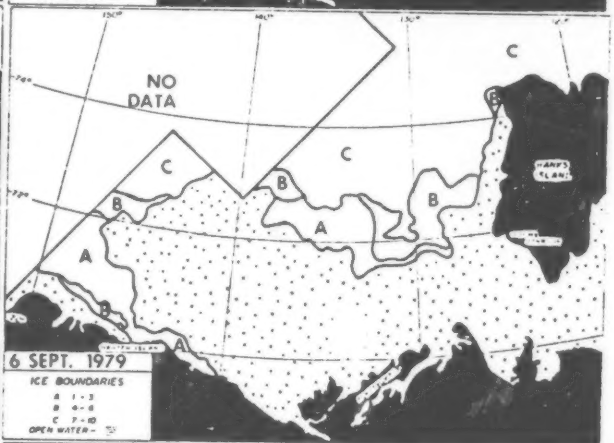
B 4-6
C 7-10
OPEN WATER -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HERSCHEL ISLAND
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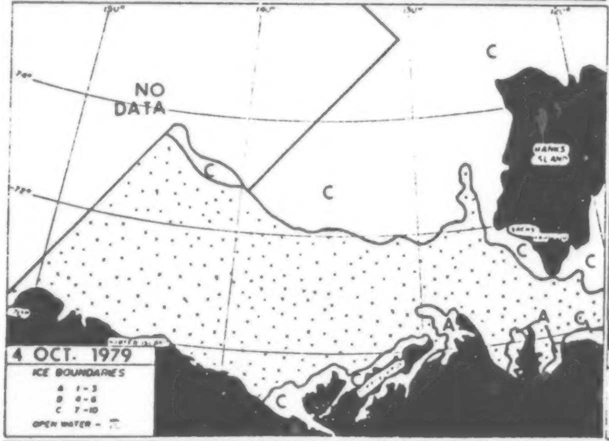
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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SACHS HARBOUR
HERSCHEL ISLAND
A
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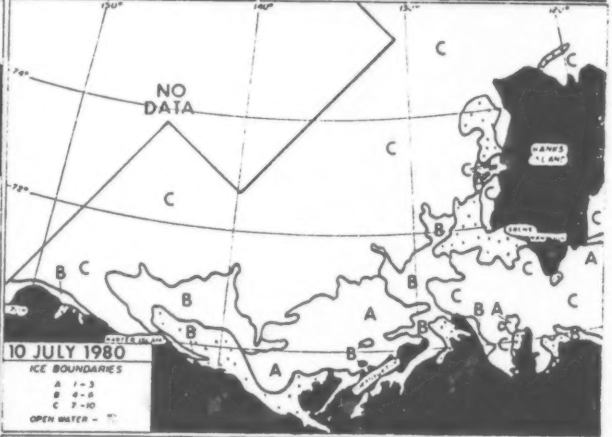
4 OCT. 1979
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
SACHS HARBOUR
HERSCHEL ISLAND
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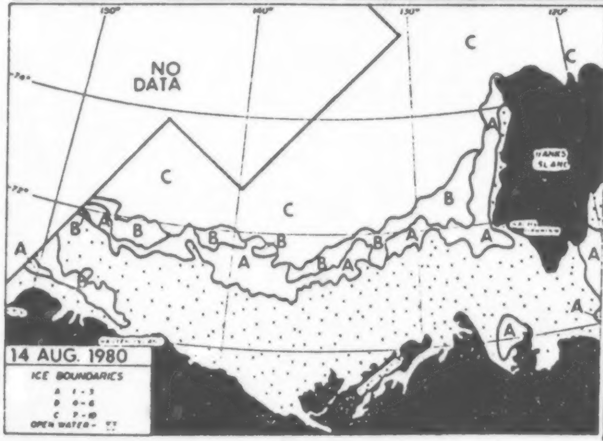
B
C
10 JULY 1980
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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BANKS ISLAND
SACHS HARBOUR
HERSCHEL ISLAND
A
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A 1-3
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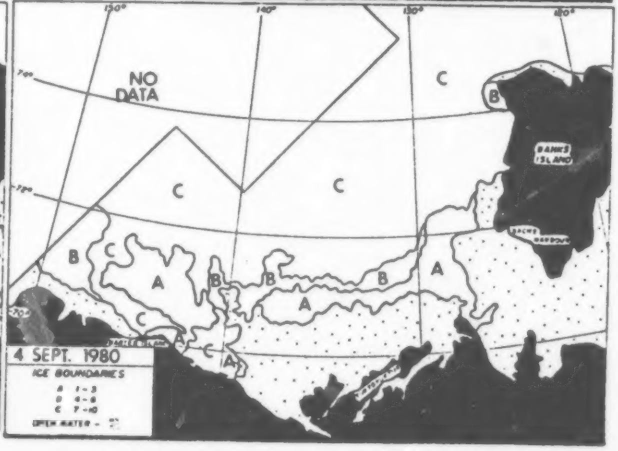
C 7-10
OPEN WATER -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SACHS HARBOUR
HERSCHEL ISLAND
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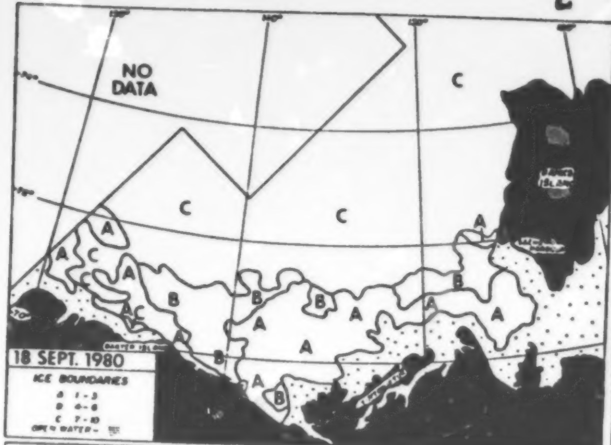
B
C
4 SEPT. 1980
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -

2 364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A
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C

18 SEPT. 1980
ICE BOUNDARIES
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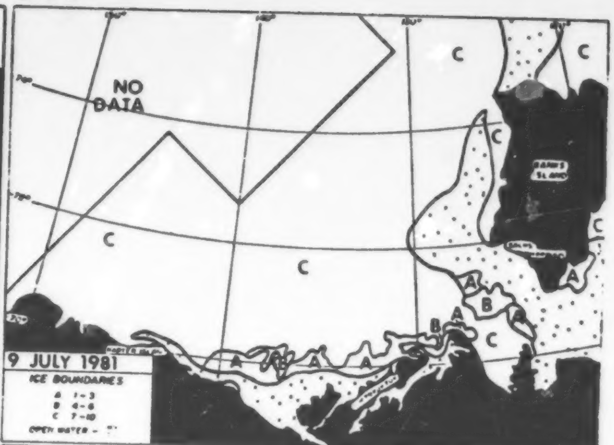
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9 JULY 1981
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B 4-6
C 7-10
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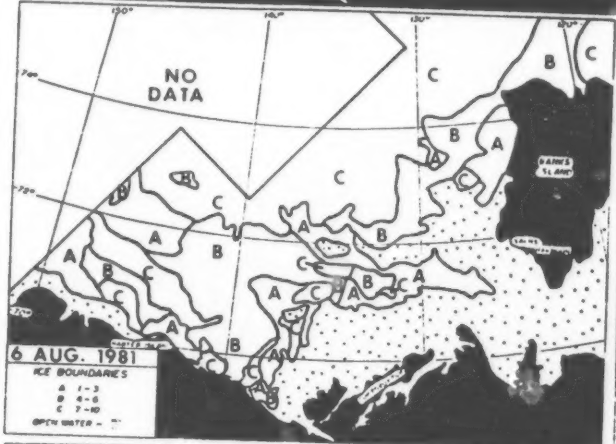
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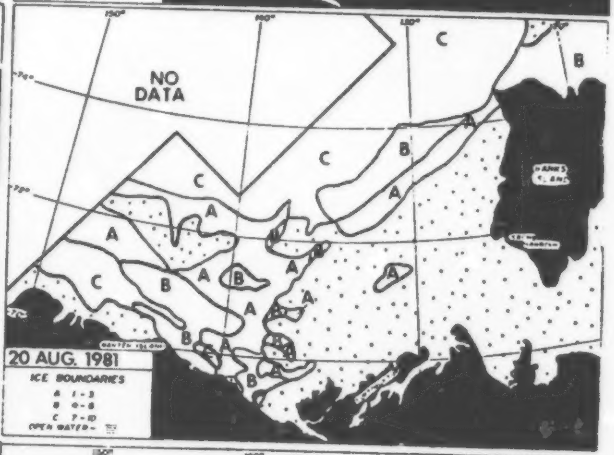
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HERSCHEL ISLAND
A
B
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20 AUG. 1981
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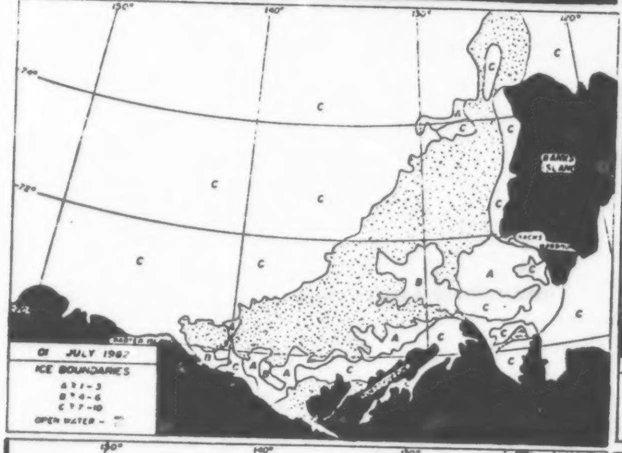
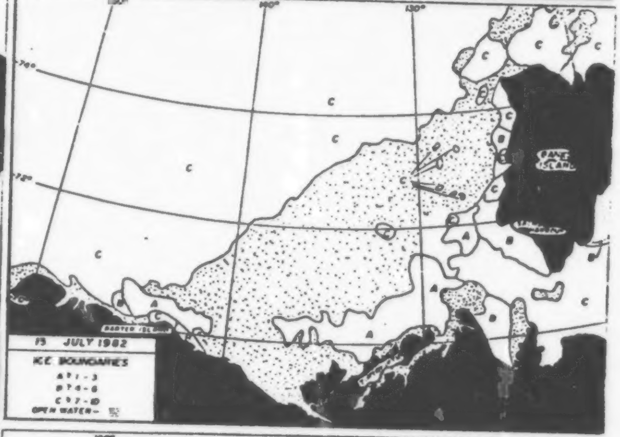

BANKS ISLAND
HERSCHEL ISLAND
A
B
C

01 JULY 1982
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -


BANKS ISLAND
HERSCHEL ISLAND
A
C

13 JULY 1982
ICE BOUNDARIES
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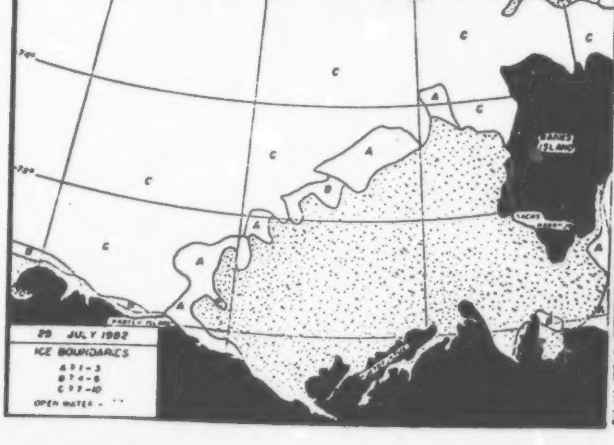
B 4-6
C 7-10
OPEN WATER -


BANKS ISLAND
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A
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29 JULY 1982
ICE BOUNDARIES
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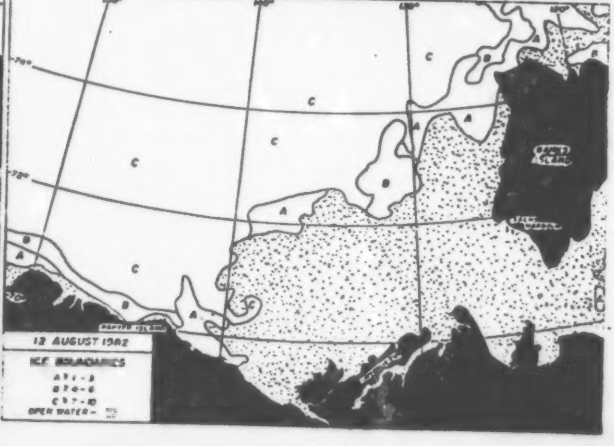
BANKS ISLAND
HERSCHEL ISLAND
A
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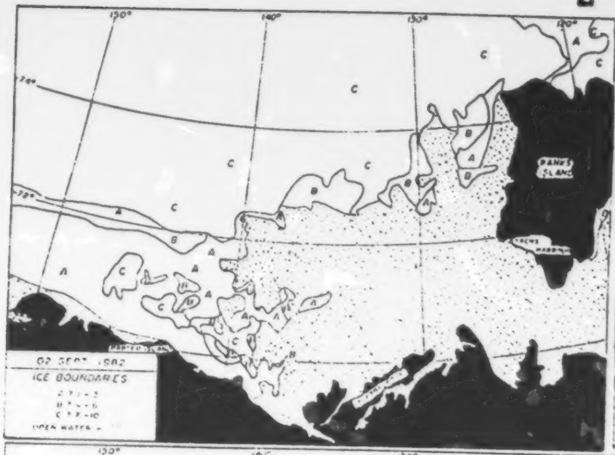
C

12 AUGUST 1982
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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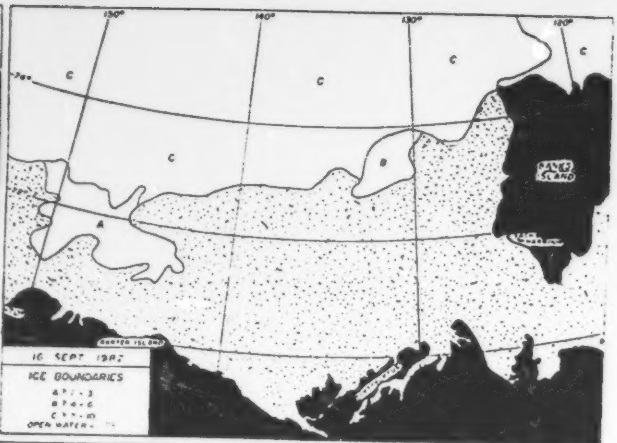
BANKS ISLAND
SACHS HARBOUR
02 SEPT 1982
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER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SACHS HARBOUR
16 SEPT 1982
ICE BOUNDARIES
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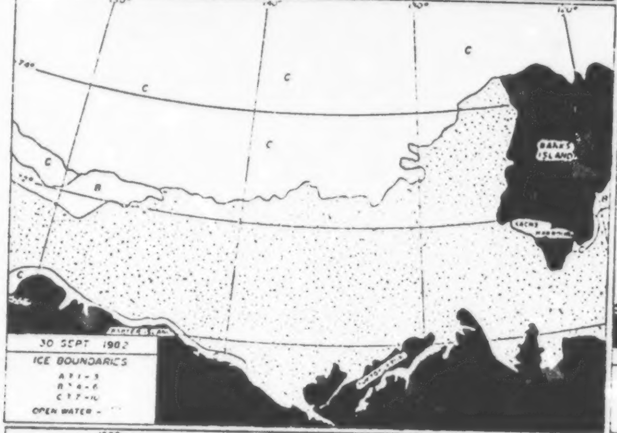
OPEN WATER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SACHS HARBOUR
30 SEPT 1982
ICE BOUNDARIES
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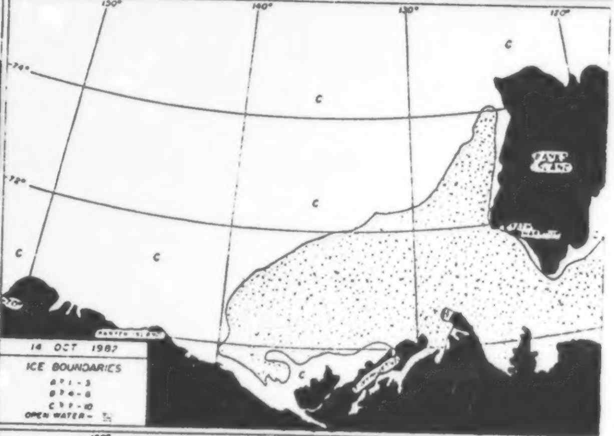
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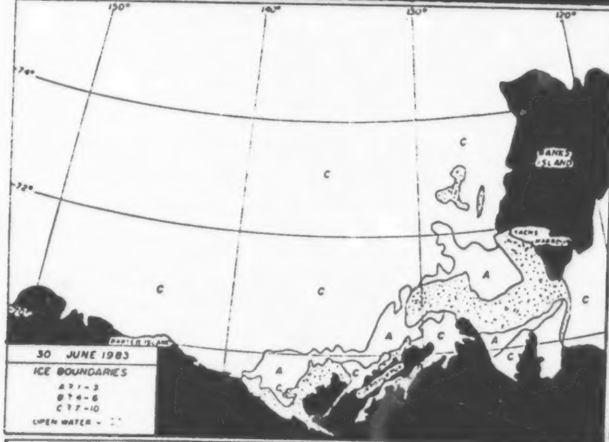
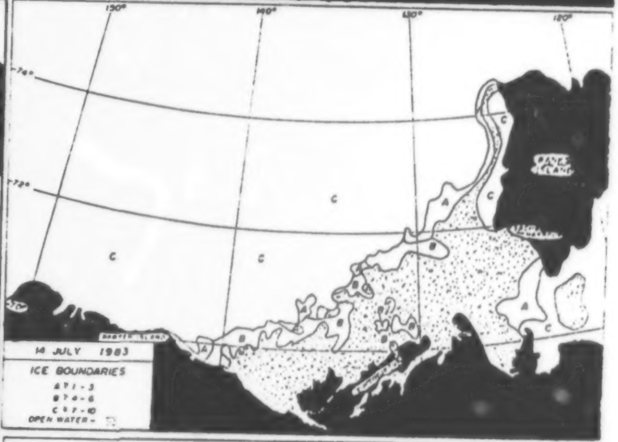
BANKS ISLAND
SACHS HARBOUR
14 OCT 1982
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER


150°
140°
130°
120°
74°
72°
BANKS ISLAND
SACHS HARBOUR
30 JUNE 1983
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER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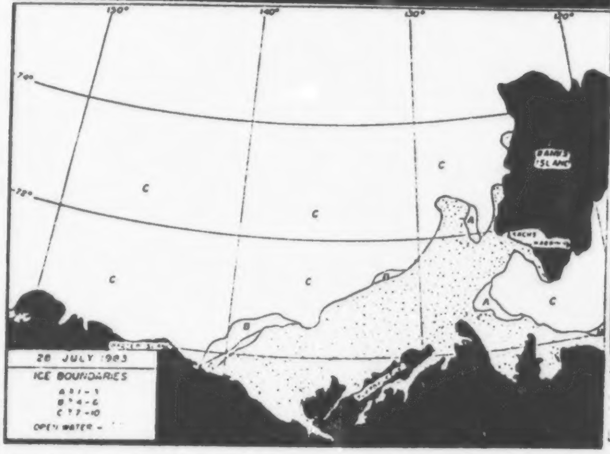
BANKS ISLAND
SACHS HARBOUR
14 JULY 1983
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER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120°
74°
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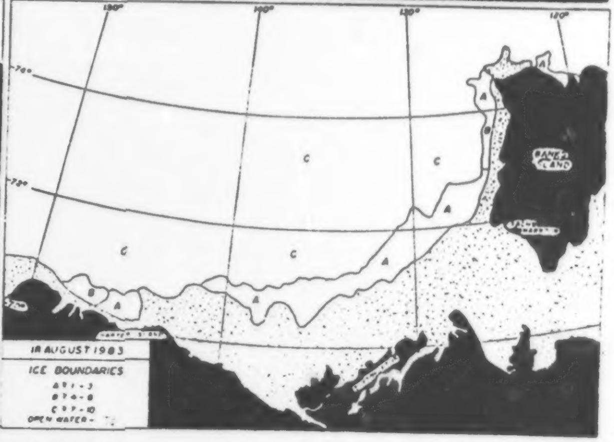
BANKS ISLAND
SACHS HARBOUR
28 JULY 1983
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER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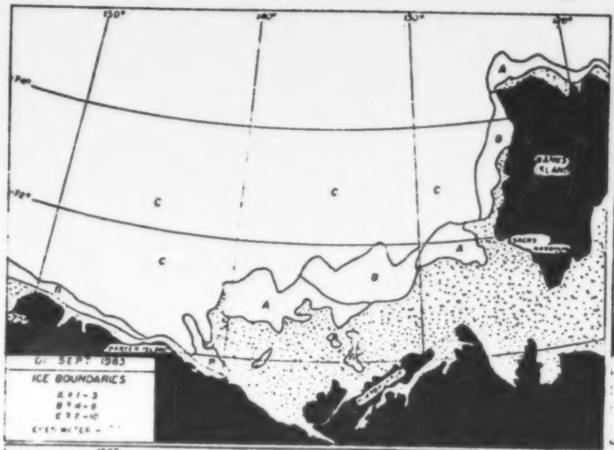
BANKS ISLAND
SACHS HARBOUR
18 AUGUST 1983
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER


130°
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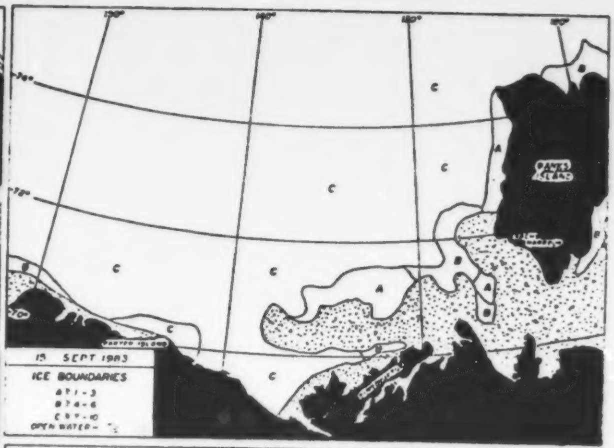
130°
120°
74°
72°
BANKS ISLAND
SACHS HARBOUR
A
B
C
BARTER ISLAND
01 SEPT 1983
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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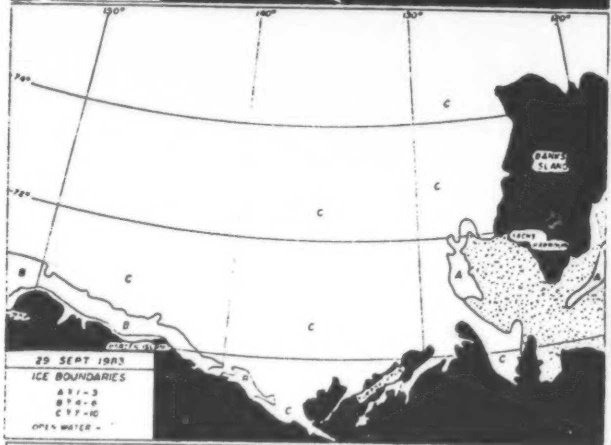
130°
120°
74°
72°
BANKS ISLAND
SACHS HARBOUR
A
B
C
BARTER ISLAND
15 SEPT 1983
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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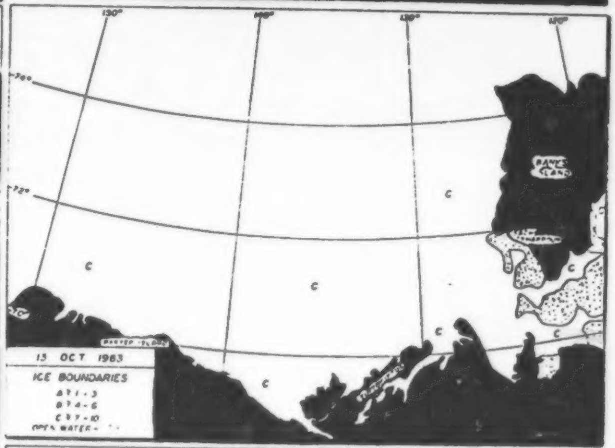
140°
130°
120°
74°
72°
BANKS ISLAND
SACHS HARBOUR
A
B
C
BARTER ISLAND
29 SEPT 1983
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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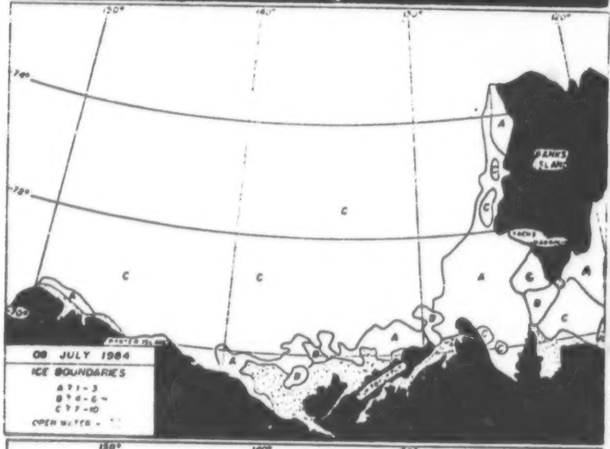
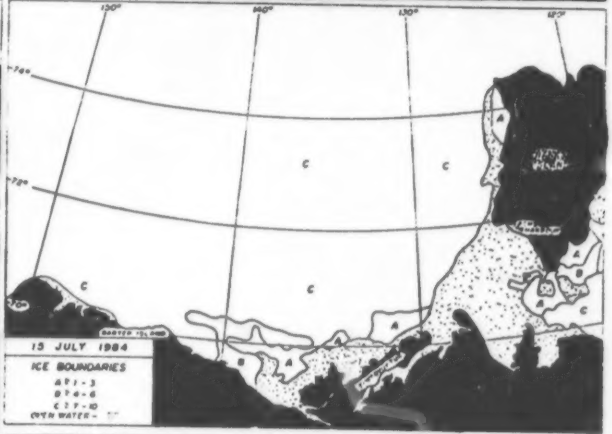
130°
120°
74°
72°
BANKS ISLAND
SACHS HARBOUR
C
BARTER ISLAND
13 OCT 1983
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -


130°
140°
130°
120°
74°
72°
BANKS ISLAND
SACHS HARBOUR
A
B
C
BARTER ISLAND
08 JULY 1984
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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140°
130°
120°
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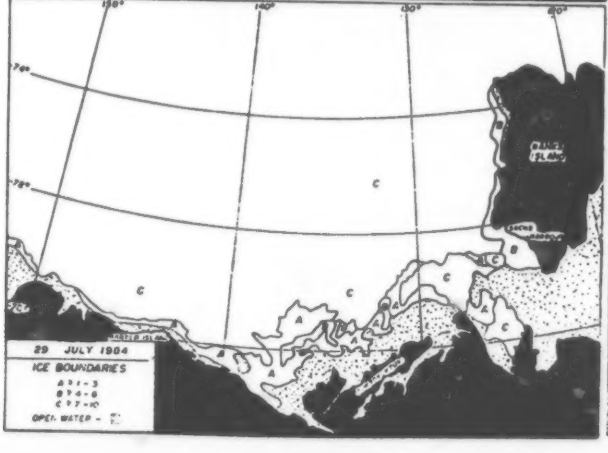
72°
A
B
C
BARTER ISLAND
15 JULY 1984
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -


150°
140°
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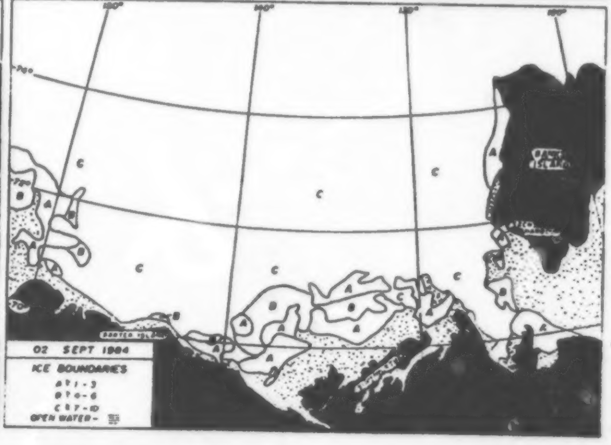
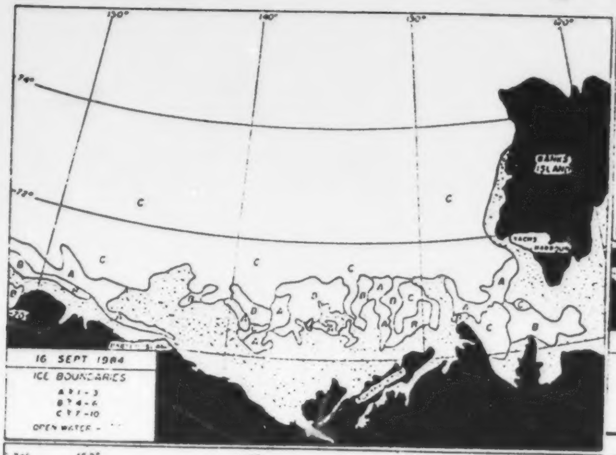
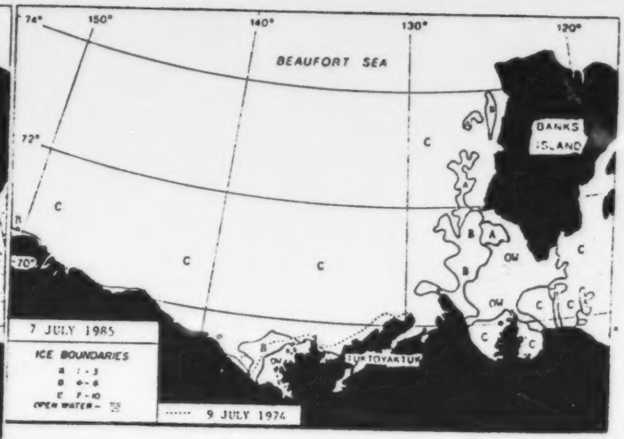
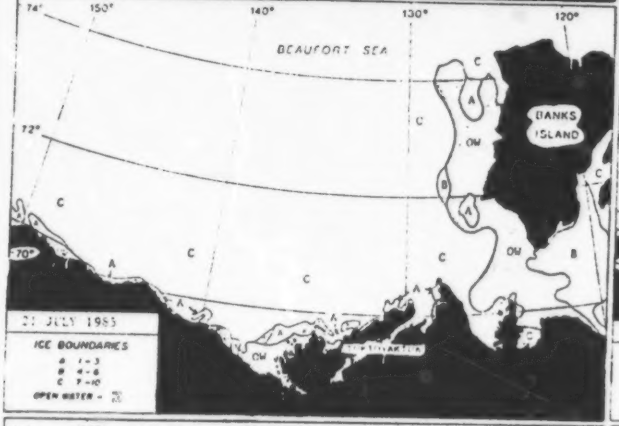
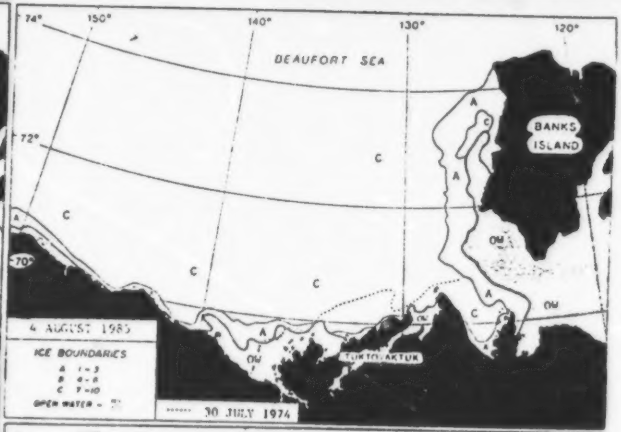
120°
74°
72°
BANKS ISLAND
SACHS HARBOUR
A
B
C
BARTER ISLAND
29 JULY 1984
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -

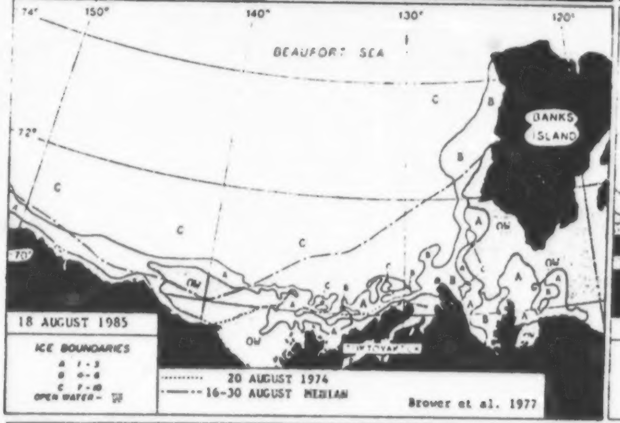

150°
140°
130°
120°
74°
72°
BANKS ISLAND
A
B
C
BARTER ISLAND
02 SEPT 1984
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -

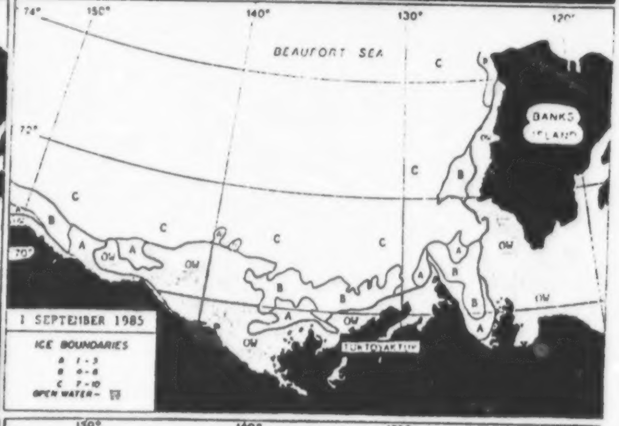

16 SEPT 1984
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
BANKS ISLAND
SACHS HARBOUR
74°
72°
70°
A
B
C

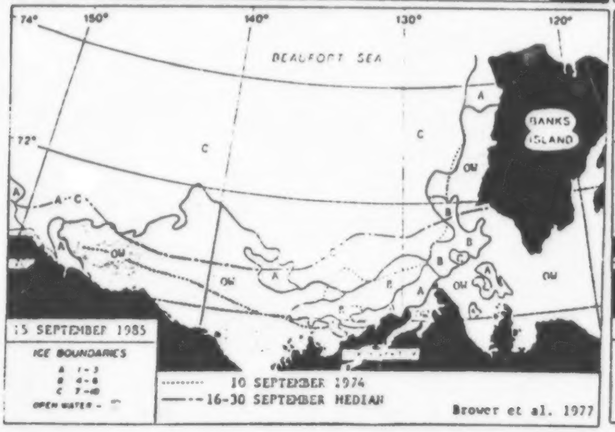

7 JULY 1985
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
9 JULY 1974
BEAUFORT SEA
BANKS ISLAND
TUKTOYAKTUK
74°
150°
140°
130°
120°
72°
70°
A
B
C
OW

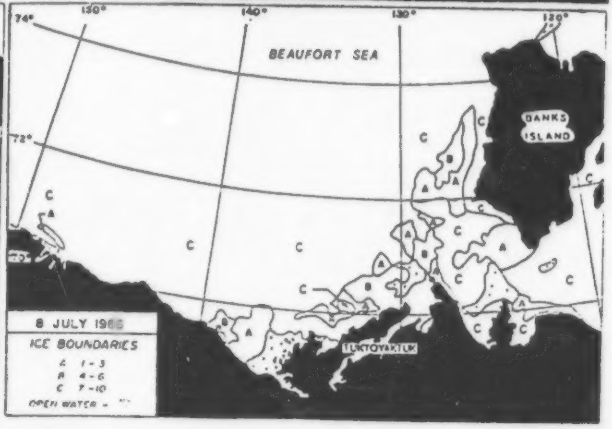

21 JULY 1985
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
BEAUFORT SEA
BANKS ISLAND
TUKTOYAKTUK
74°
150°
140°
130°
120°
72°
70°
A
B
C
OW

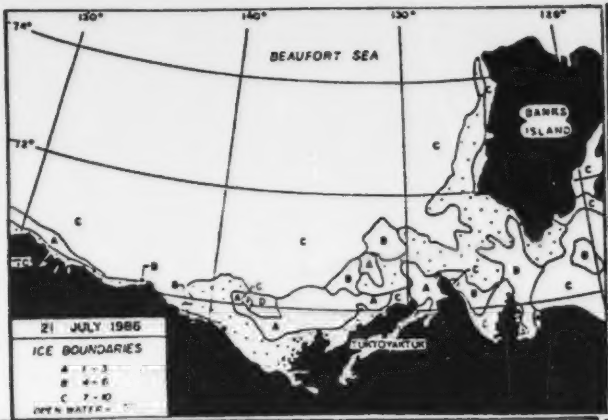

4 AUGUST 1985
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
30 JULY 1974
BEAUFORT SEA
BANKS ISLAND
TUKTOYAKTUK
74°
150°
140°
130°
120°
72°
70°
A
C
OW

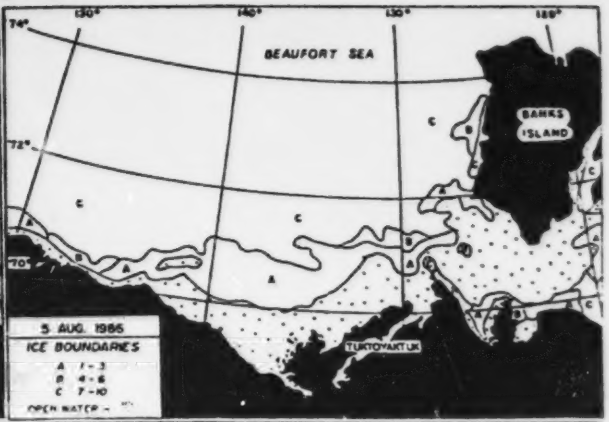

18 AUGUST 1985
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
20 AUGUST 1974
16-30 AUGUST MEDIAN
Brower et al. 1977
BEAUFORT SEA
BANKS ISLAND
TUKTOYAKTUK
74°
150°
140°
130°
120°
72°
70°
A
B
C
OW

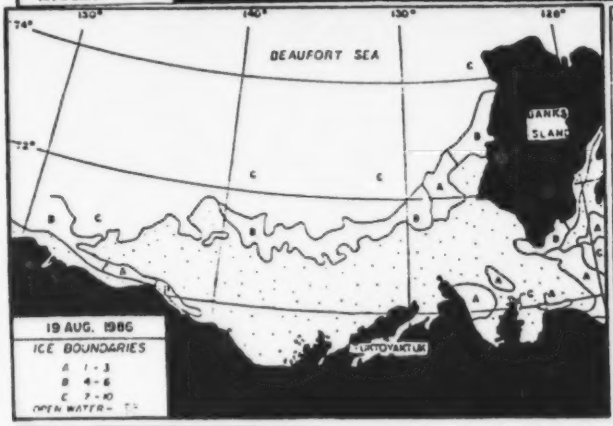

1 SEPTEMBER 1985
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
BEAUFORT SEA
BANKS ISLAND
TUKTOYAKTUK
74°
150°
140°
130°
120°
72°
70°
A
B
C
OW

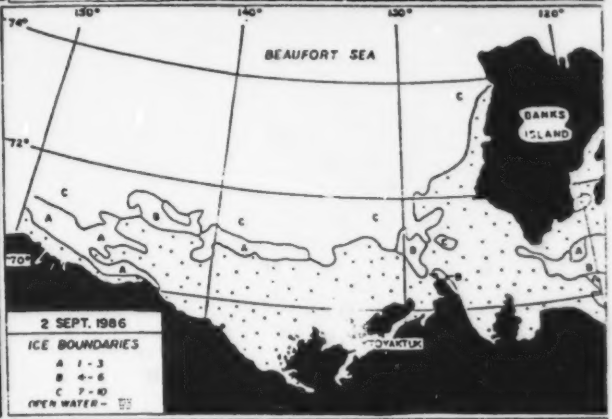

15 SEPTEMBER 1985
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
10 SEPTEMBER 1974
16-30 SEPTEMBER MEDIAN
Brower et al. 1977
BEAUFORT SEA
BANKS ISLAND
74°
150°
140°
130°
120°
72°
A
B
C
OW

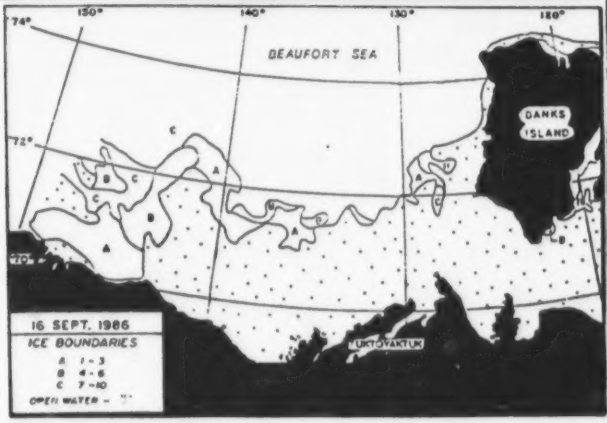

8 JULY 1986
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -
BEAUFORT SEA
BANKS ISLAND
TUKTOYAKTUK
74°
150°
140°
130°
120°
72°
A
B
C

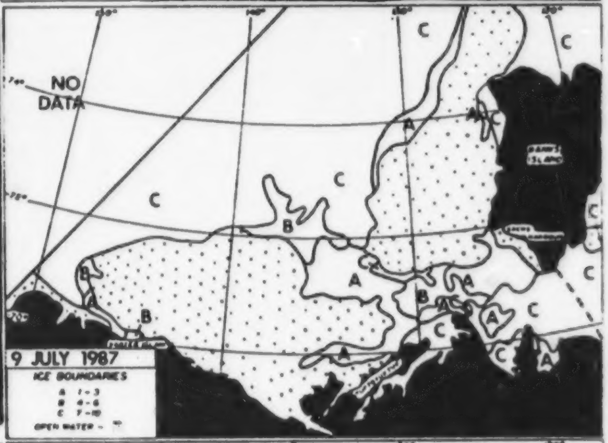

74°
130°
140°
130°
120°
BEAUFORT SEA
BANKS ISLAND
72°
70°
TUKTOYAKTUK
A
B
C
21 JULY 1986
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -

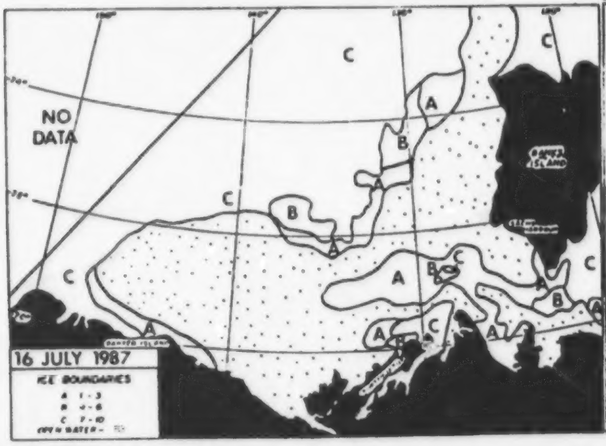

74°
130°
140°
130°
120°
BEAUFORT SEA
BANKS ISLAND
72°
70°
TUKTOYAKTUK
A
B
C
5 AUG. 1986
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -

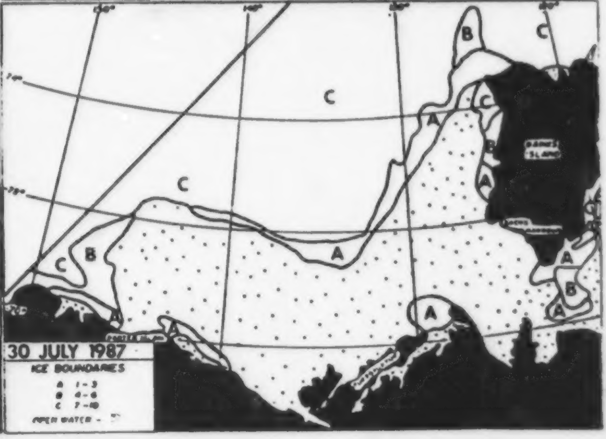

74°
130°
140°
130°
120°
BEAUFORT SEA
BANKS ISLAND
72°
TUKTOYAKTUK
A
B
C
19 AUG. 1986
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -

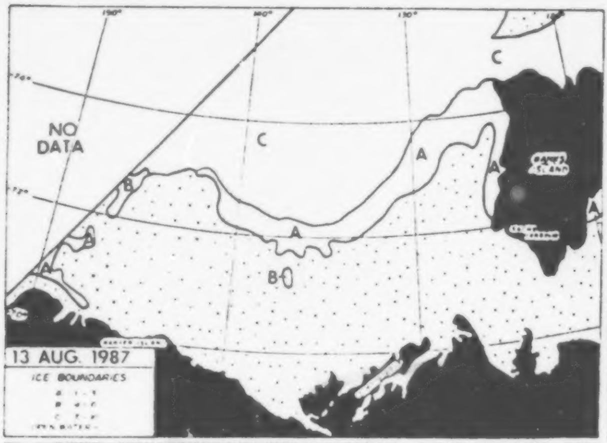

74°
130°
140°
130°
120°
BEAUFORT SEA
BANKS ISLAND
72°
70°
TUKTOYAKTUK
A
C
2 SEPT. 1986
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -


74°
130°
140°
130°
120°
BEAUFORT SEA
BANKS ISLAND
72°
70°
TUKTOYAKTUK
A
B
C
16 SEPT. 1986
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -


NO DATA
A
B
C
BANKS ISLAND
9 JULY 1987
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -


NO DATA
A
B
C
BANKS ISLAND
16 JULY 1987
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -


A
B
C
BANKS ISLAND
30 JULY 1987
ICE BOUNDARIES
A 1-3
B 4-6
C 7-10
OPEN WATER -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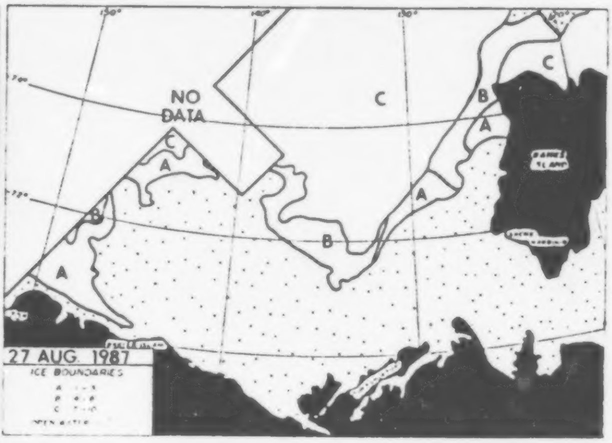
150°
140°
130°
70°
72°
NO
DATA
C
A
B
BANKS
ISLAND
ICE BOUNDARIES
OPEN WATER


27 AUG. 1987
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130°
70°
72°
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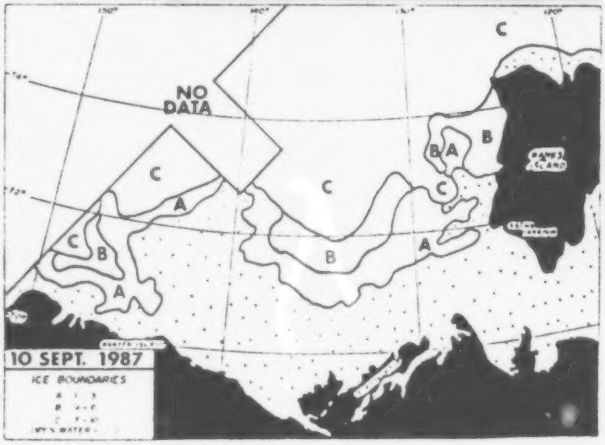
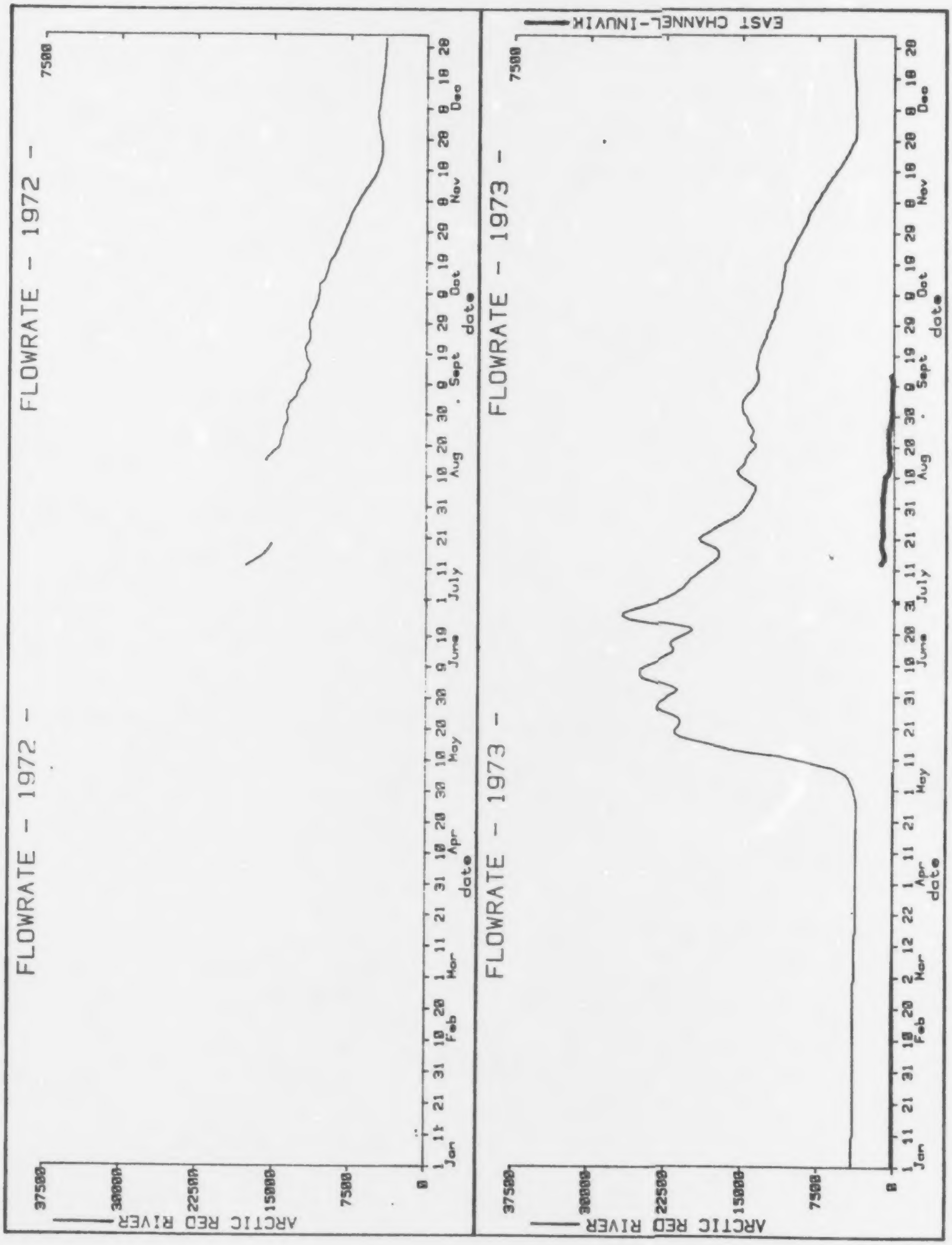
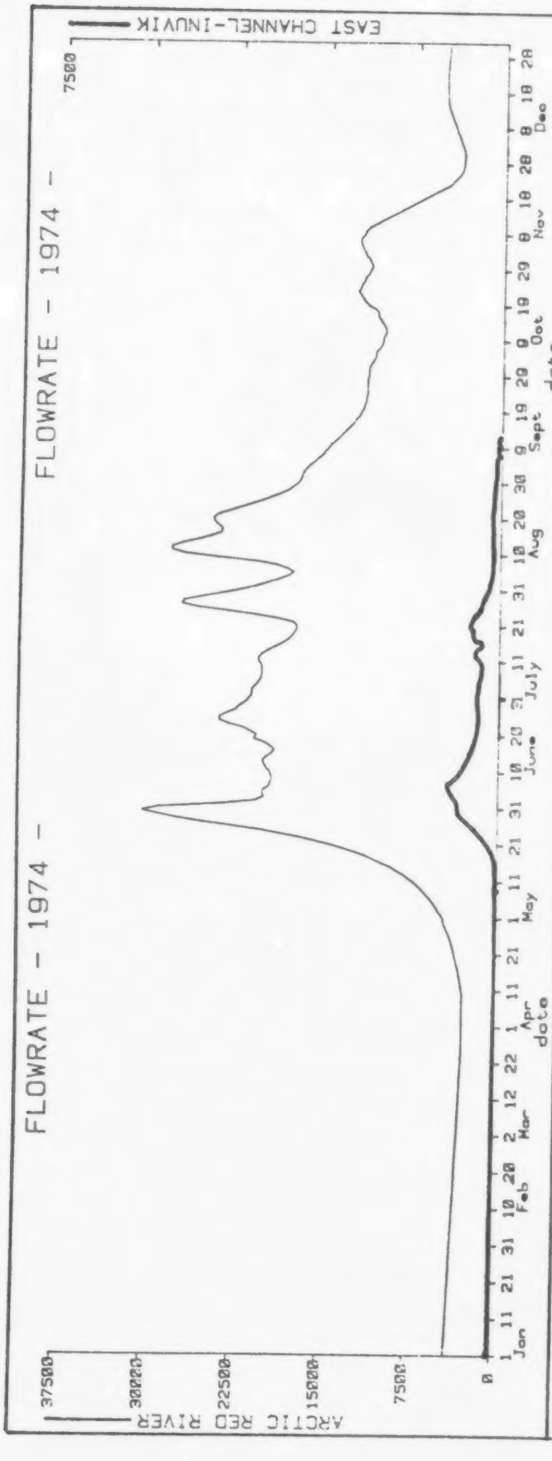
DATA
C
B
A
BANKS
ISLAND
ICE BOUNDARIES
OPEN WATER


10 SEPT. 1987
150°
140°
130°
120°
70°
72°
NO
DATA
C
B
A
BANKS
ISLAND
ICE BOUNDARIES
OPEN WATER

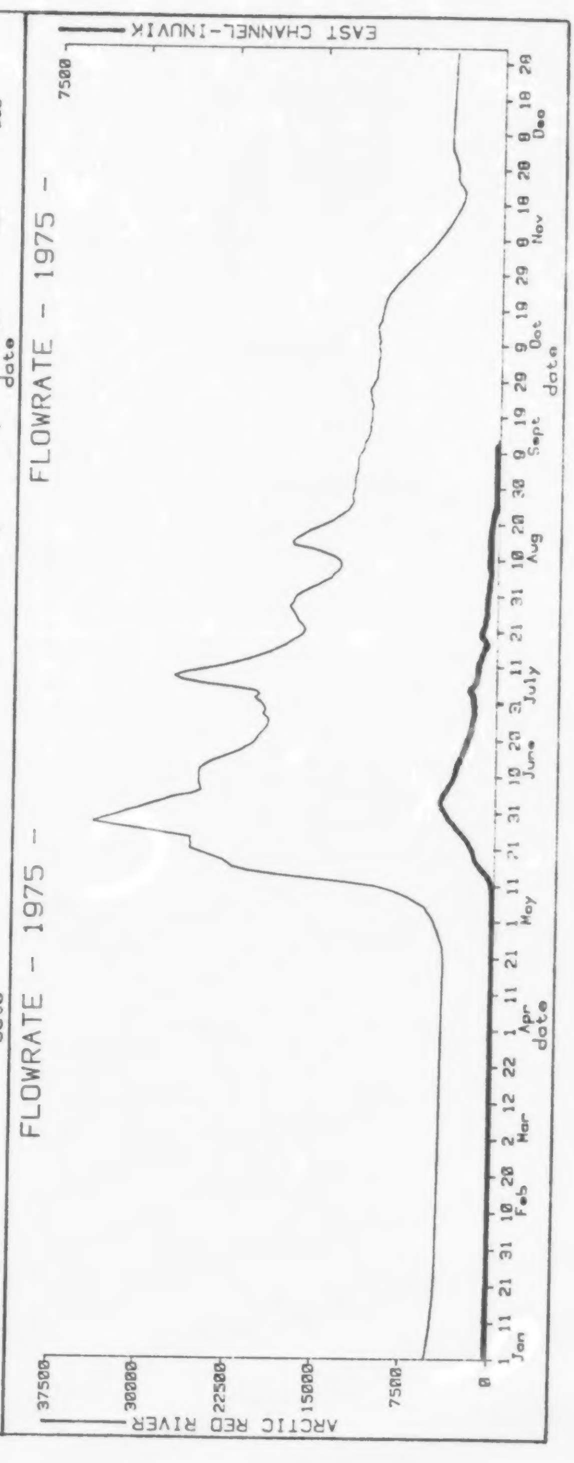
# APPENDIX H

## PLOTS OF MACKENZIE RIVER DISCHARGES AT ARCTIC RED RIVER AND AT EAST CHANNEL - INUVIK

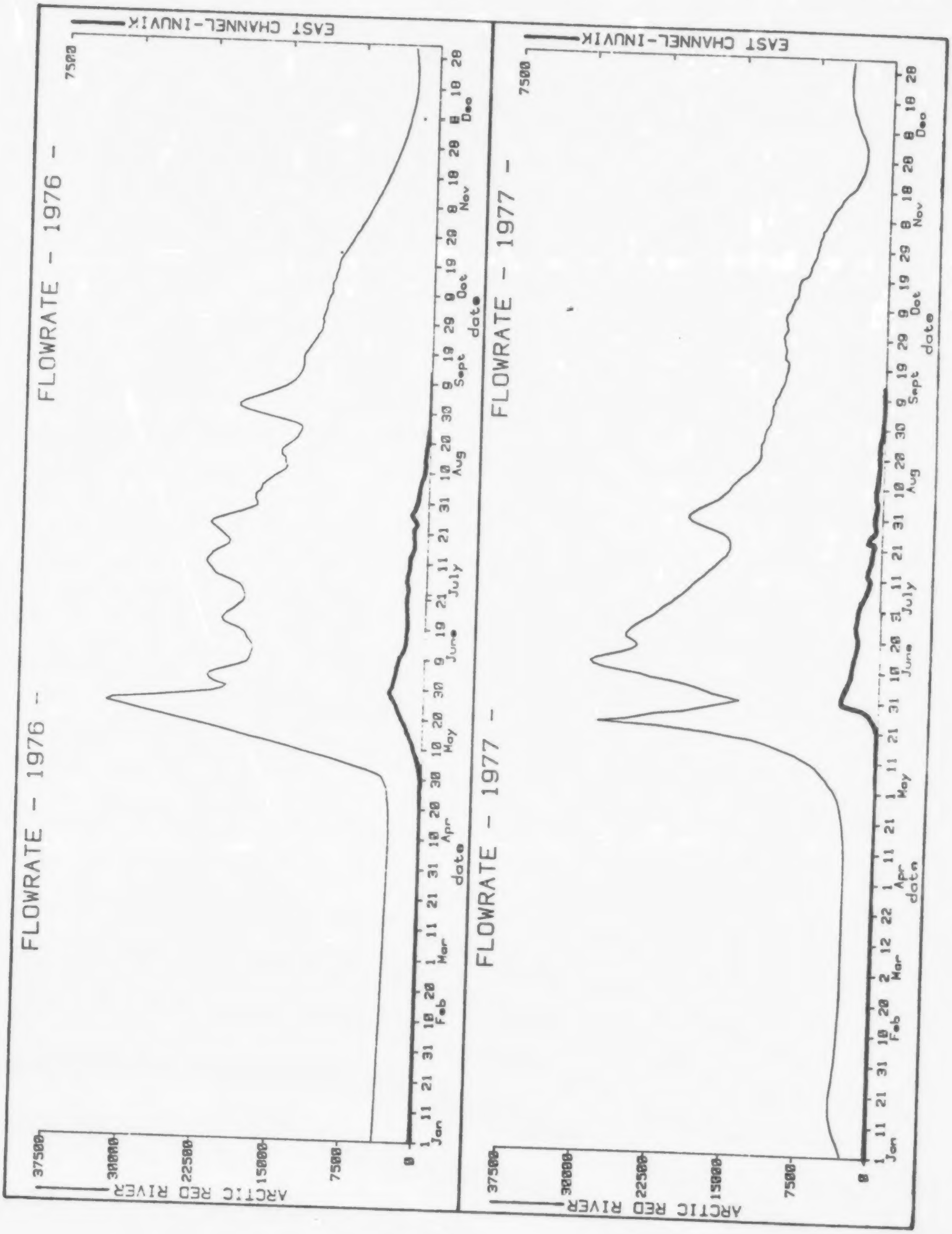

FLOWRATE - 1972 -
FLOWRATE - 1972 -
ARCTIC RED RIVER
37500
30000
22500
15000
7500
0
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
date
FLOWRATE - 1973 -
FLOWRATE - 1973 -
ARCTIC RED RIVER
EAST CHANNEL-INUVIK
37500
30000
22500
15000
7500
0
date

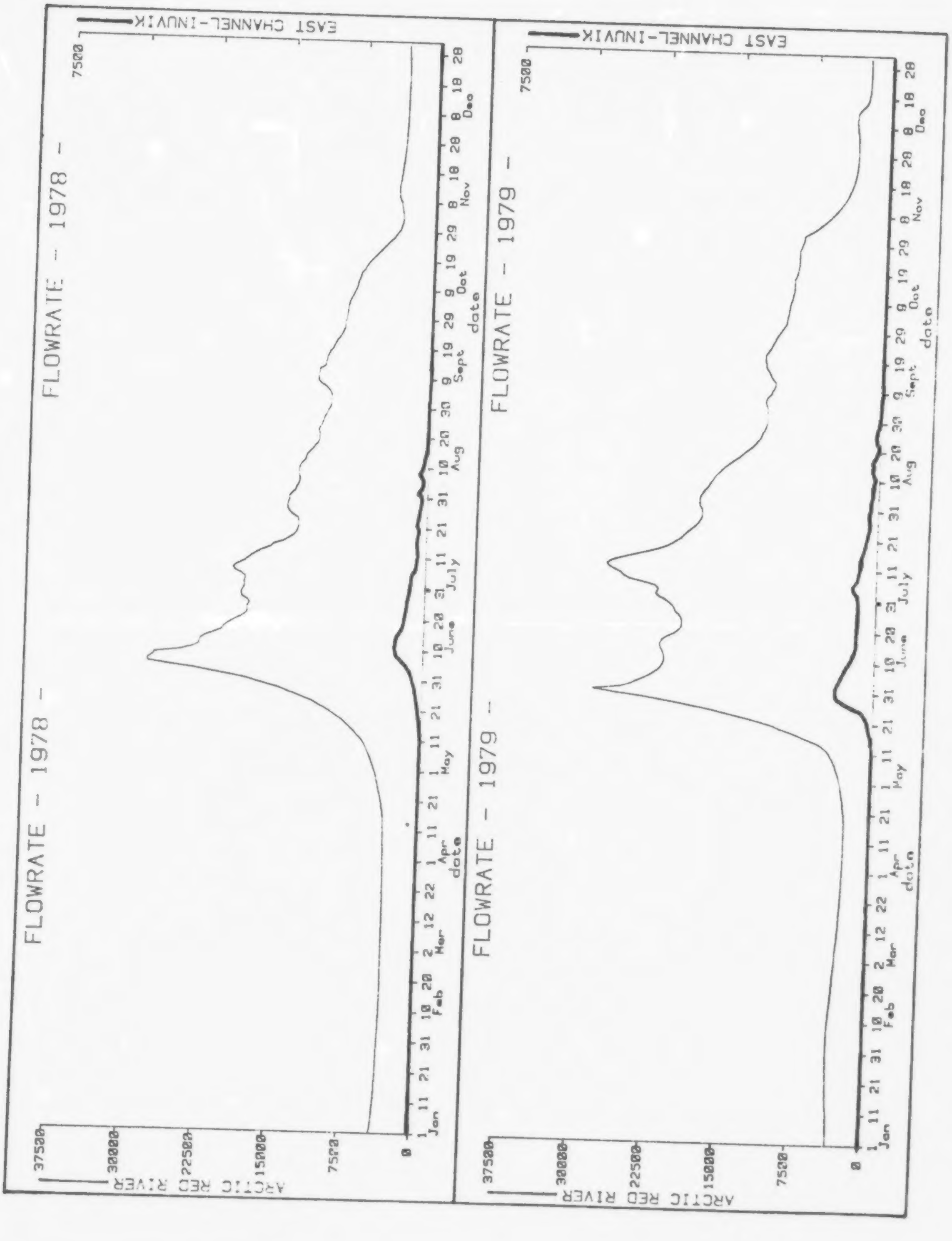


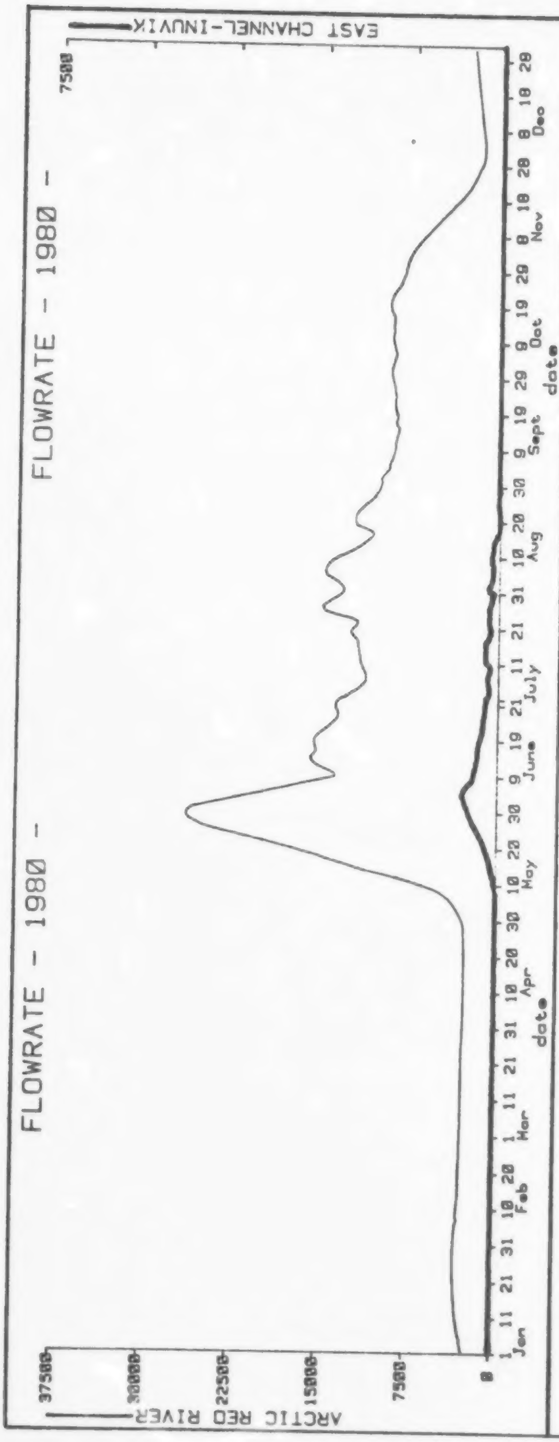
FLOWRATE - 1974 -

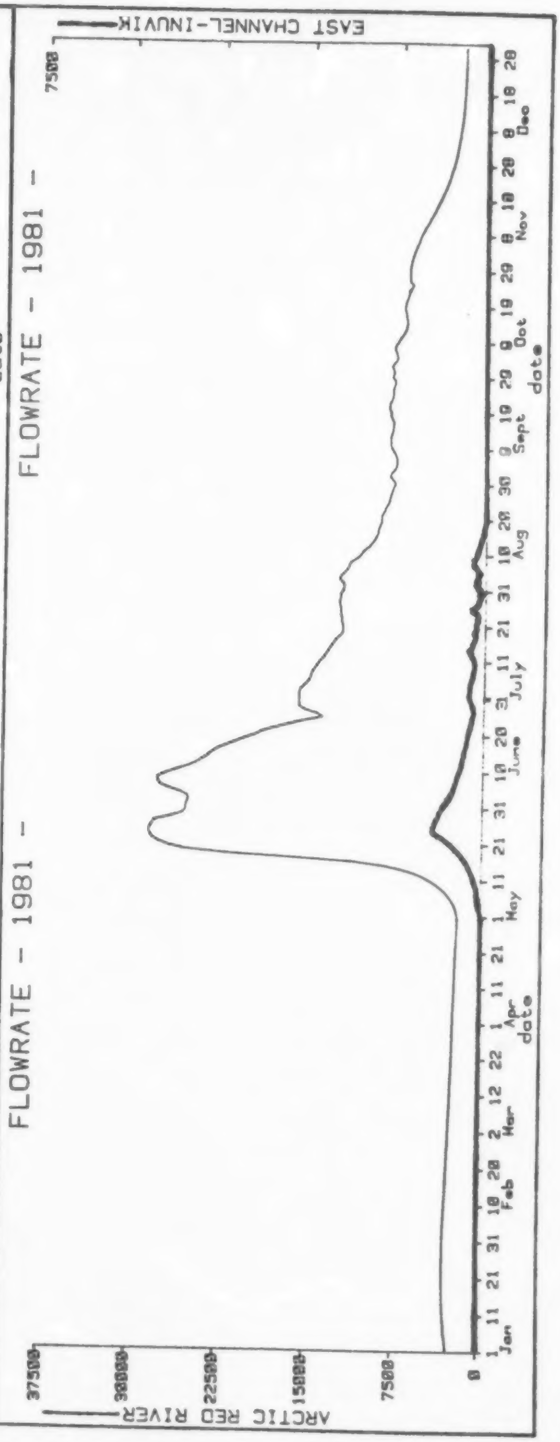


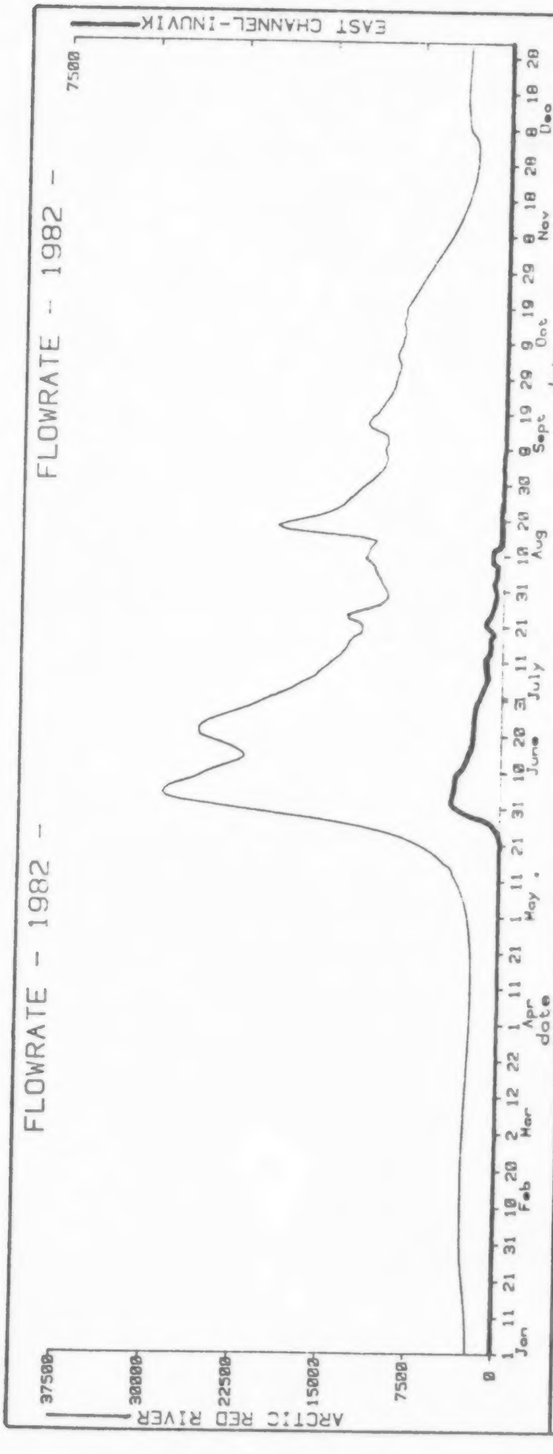
FLOWRATE - 1975 -

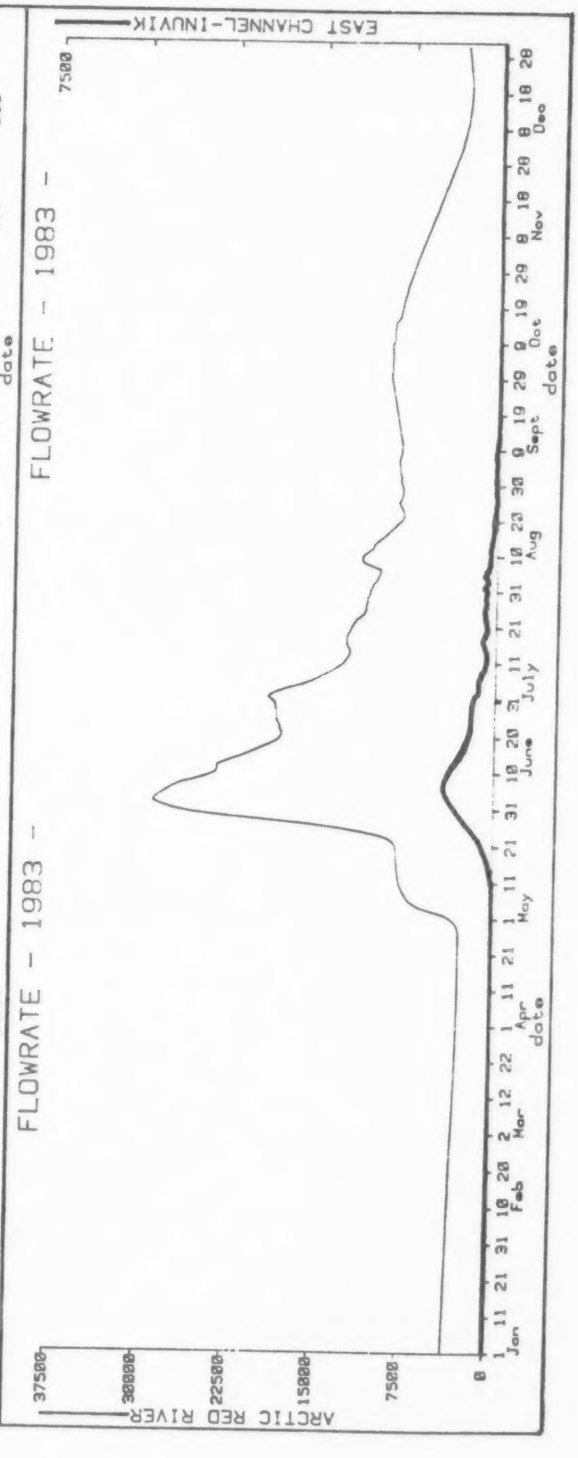

FLOWRATE - 1976 -
FLOWRATE - 1976 -
ARCTIC RED RIVER
EAST CHANNEL-INUVIK
37500
30000
22500
15000
7500
0
7500
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
date
date
FLOWRATE - 1977 -
FLOWRATE - 1977 -
ARCTIC RED RIVER
EAST CHANNEL-INUVIK
37500
30000
22500
15000
7500
0
7500
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
date
date

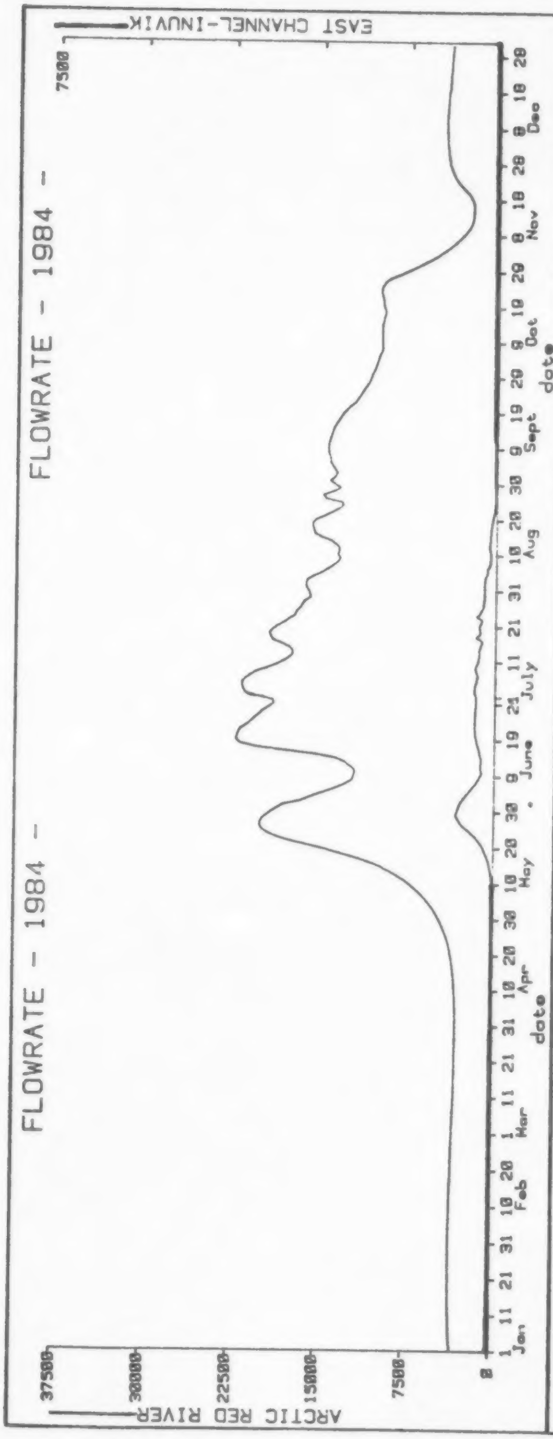

FLOWRATE - 1978 -
FLOWRATE - 1978 -
ARCTIC RED RIVER
EAST CHANNEL-INUVIK
37500
30000
22500
15000
7500
0
7500
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
date
FLOWRATE - 1979 -
FLOWRATE - 1979 -
ARCTIC RED RIVER
EAST CHANNEL-INUVIK
37500
30000
22500
15000
7500
0
7500
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
date

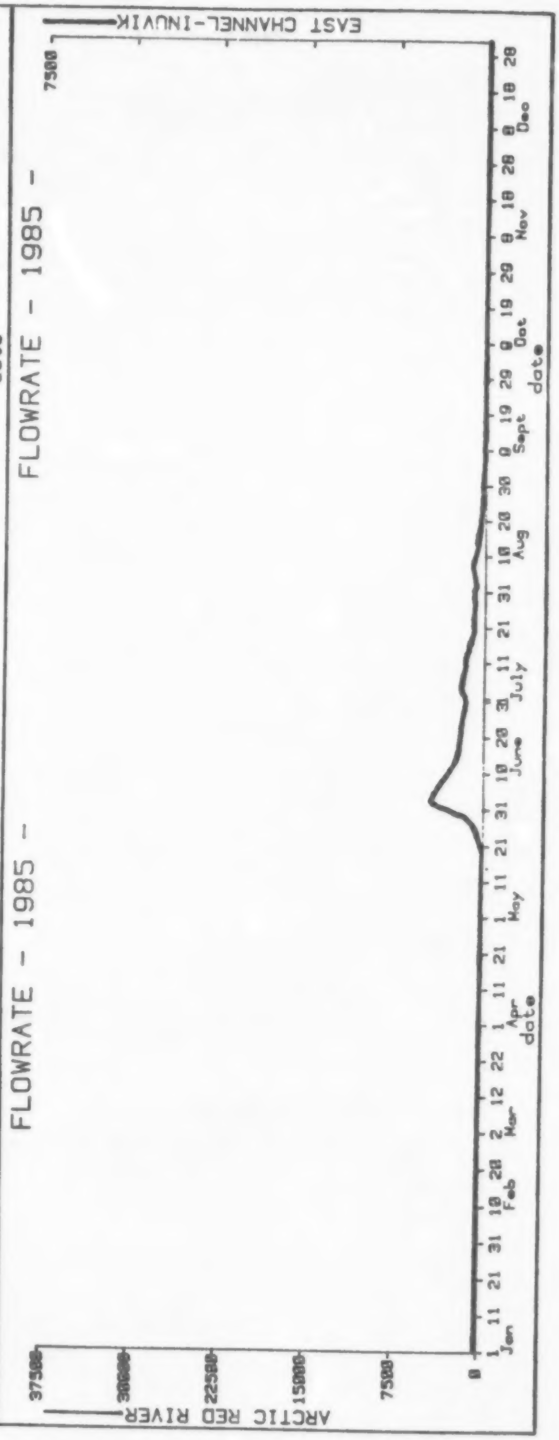

FLOWRATE - 1980 -
FLOWRATE - 1980 -
ARCTIC RED RIVER
EAST CHANNEL-INUVIK
37500
30000
22500
15000
7500
0
7500
1 11 21 31 10 20 1 11 21 31 10 20 30 10 20 30 9 19 29 9 19 29 10 20 30 9 19 29 8 18 28 8 18 28
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec
date
date

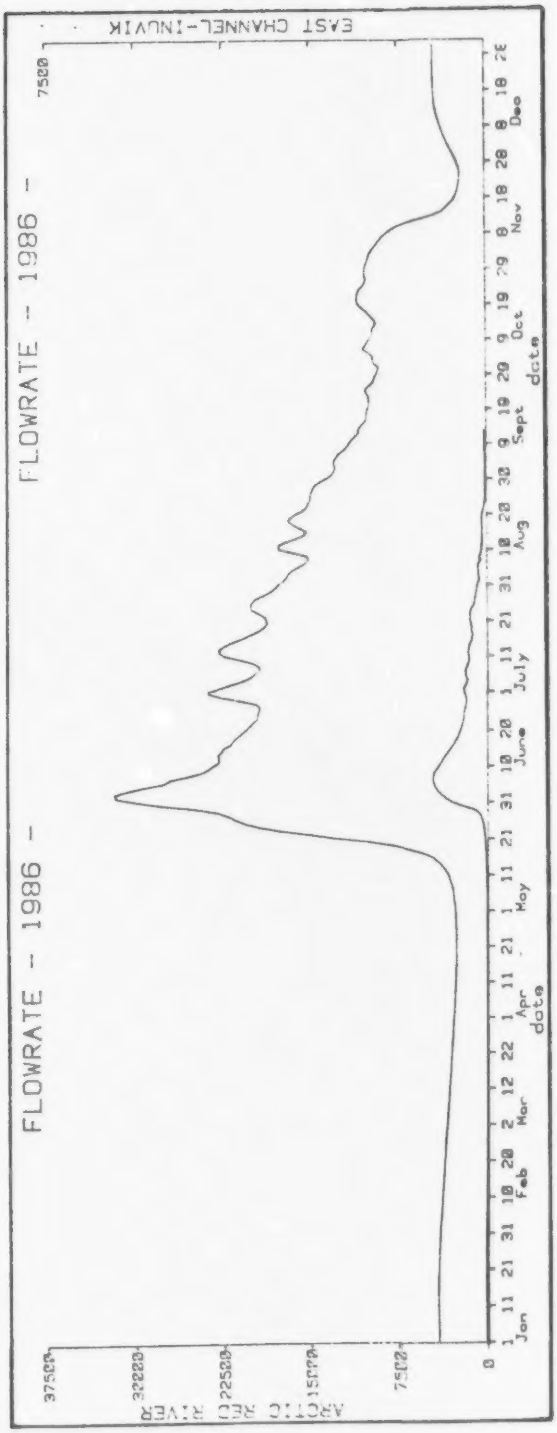

FLOWRATE - 1981 -
FLOWRATE - 1981 -
ARCTIC RED RIVER
EAST CHANNEL-INUVIK
37500
30000
22500
15000
7500
0
7500
1 11 21 31 10 20 2 12 22 1 11 21 1 11 21 31 10 20 31 11 21 31 10 20 30 9 19 29 9 19 29 8 18 28 8 18 28
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec
date
date


FLOWRATE - 1982 -
FLOWRATE - 1982 -
ARCTIC RED RIVER
EAST CHANNEL-INUVIK
37500
30000
22500
15000
7500
0
7500
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
date
date


FLOWRATE - 1983 -
FLOWRATE - 1983 -
ARCTIC RED RIVER
EAST CHANNEL-INUVIK
37500
30000
22500
15000
7500
0
7500
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
date
date


FLOWRATE - 1984 -
FLOWRATE - 1984 -
EAST CHANNEL-INUVIK
ARCTIC RED RIVER
7500
37500
30000
22500
15000
7500
0
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
date
date


FLOWRATE - 1985 -
FLOWRATE - 1985 -
EAST CHANNEL-INUVIK
ARCTIC RED RIVER
7500
37500
30000
22500
15000
7500
0
Jan
Feb
Mar
Apr
May
June
July
Aug
Sept
Oct
Nov
Dec
date
date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FLOWRATE - 1986 -
EAST CHANNEL-INUVIK
ARCTIC RED RIVER
37500
30000
22500
15000
7500
0
7500
1 11 21 31 Jan
10 20 Feb
2 12 22 Mar
1 11 21 Apr
1 11 21 May
31 10 20 June
1 11 21 31 July
10 20 Aug
30 9 19 Sept
29 9 19 Oct
29 8 18 Nov
28 8 18 28 Dec
date
date